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THE NOTIFIABLE DISEASES

PREVALENCE DURING 1928 IN CITIES
OF OVER 100,000

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UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D. C.

THE NOTIFIABLE DISTANCE

PREVALENCE OF THE DISEASE
IN THE AREA

REPORT OF THE
COMMISSIONER OF THE
BUREAU OF LAND MANAGEMENT



REPORT OF THE
COMMISSIONER OF THE
BUREAU OF LAND MANAGEMENT

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no. 76-97

THE NOTIFIABLE DISEASES

PREVALENCE DURING 1928 IN CITIES OF OVER 100,000¹

The following tables were compiled from data furnished by the health officers of the cities.

The following is a list of the diseases included:

Anthrax.	Rabies in man.
Chicken pox.	Rocky Mountain spotted (or tick) fever.
Dengue.	Scarlet fever.
Diphtheria.	Septic sore throat.
Influenza.	Smallpox.
Lethargic encephalitis.	Tuberculosis (all forms and respiratory system).
Malaria.	Tularæmia.
Measles.	Typhoid fever.
Meningococcus meningitis.	Typhus fever.
Mumps.	Undulant fever.
Pellagra.	Whooping cough.
Pneumonia (all forms).	
Poliomyelitis.	
Rabies in animals.	

The populations given, and which were used in computing the rates, were estimated as of July 1, 1928, by the Bureau of the Census. These estimates are based on the Federal censuses of 1910 and 1920 or on State censuses later than 1920. In a few cases, where there is reason to believe that the results thus obtained are far from correct, no estimate is made. The number of cases and deaths occurring from each disease in these cities is given but no rates are computed.

The estimated expectancy given in the tables for some of the diseases is the result of an attempt to ascertain from the experience of recent years how many cases of the disease under consideration might be expected in 1928. In most instances the estimated expectancy is the median number of cases reported by the city for the years 1921 to 1927, inclusive. When several epidemics have occurred during these years, or when for other reasons the median is not satisfactory, epidemic years are excluded, and the estimated expectancy is the mean of the number of cases reported for the nonepidemic years. The aim has been to ascertain how many cases of each disease may reasonably be expected in the absence of epidemics.

The column headed "Number of years" shows the number of years later than 1920 for which data were available for each city.

¹ Data for cities having 10,000 to 100,000 population are published in Supplement No. 7.

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In comparing the figures for 1928 with the estimated expectancy, averages, or with reports for preceding years, it should be borne in mind that for several years there has been a gradual improvement in the reporting of communicable diseases. An increase in the number of cases reported may be due to better reporting rather than to an increase in the number of cases occurring.

In studying these tables it should be kept in mind that a relatively large number of reported cases of a communicable disease as indicated by a high case rate (and more especially when accompanied by a relatively small number of deaths, as indicated by a low fatality rate) usually means that the health department of the city reporting is active and that the cases of the disease are being well reported by the practicing physicians. It does not usually mean that the disease is more prevalent in that city than in other cities. A high fatality rate may mean that the disease was unusually virulent in a city; that the physicians did not treat the disease in that city with the success usual elsewhere; or that the practicing physicians did not report all of their cases to the health department. On the other hand, an unusually low fatality rate may be due to the fact that the disease in the city was unusually mild; that the physicians treated it with unusual success; that the practicing physicians reported their cases satisfactorily; or that the registration of deaths was incomplete or the assignment of the causes of death inaccurate.

Cities which did not report either cases or deaths of a certain disease in 1928 (except smallpox) are not included in the table for that disease.

The following table gives a comparison of the rates for some of the principal communicable diseases in the large cities of the United States for the years 1922, 1923, 1924, 1925, 1926, 1927, and 1928:

	Cases		Deaths			Cases		Deaths	
	Number of cities	Cases per 1,000 population	Number of cities	Deaths per 1,000 population		Number of cities	Cases per 1,000 population	Number of cities	Deaths per 1,000 population
Chicken pox:					Influenza:				
1922.....	68	1.69	68	0.001	1922.....			70	0.161
1923.....	77	2.02	77	.001	1923.....			77	.207
1924.....	82	2.45	82	.001	1924.....			80	.098
1925.....	69	1.89.	69	.001	1925.....			66	.151
1926.....	68	2.24	68	.001	1926.....			66	.236
1927.....	73	2.46	73	.001	1927.....			75	.135
1928.....	75	2.17	75	.001	1928.....			73	.253
Diphtheria:					Lethargic encephalitis:				
1922.....	73	2.25	73	.155	1924.....			68	.022
1923.....	77	1.97	77	.132	1925.....			58	.022
1924.....	82	1.67	83	.111	1926.....			59	.020
1925.....	69	1.39	69	.100	1927.....			65	.017
1926.....	70	1.33	70	.097	1928.....			64	.016
1927.....	76	1.68	76	.085	Measles:				
1928.....	75	1.29	75	.064	1922.....	72	5.26	72	.080

	Cases		Deaths			Cases		Deaths	
	Number of cities	Cases per 1,000 population	Number of cities	Deaths per 1,000 population		Number of cities	Cases per 1,000 population	Number of cities	Deaths per 1,000 population
Measles—Continued.					Scarlet fever—Contd.				
1923	77	7.11	77	0.076	1924	82	2.15	82	0.027
1924	80	4.36	83	.048	1925	68	2.26	68	.026
1925	69	3.32	69	.032	1926	70	2.13	70	.024
1926	70	7.92	70	.082	1927	76	2.37	76	.021
1927	72	3.07	72	.020	1928	75	1.78	75	.018
1928	75	5.88	75	.050	Smallpox:				
Meningococcus meningitis:					1922	75	.17	75	.0119
1922	41	.03	67	.016	1923	78	.18	78	.0014
1923	40	.02	64	.016	1924	83	.50	83	.0164
1924	39	.02	64	.015	1925	69	.25	69	.0139
1925	48	.02	61	.014	1926	70	.16	70	.0009
1926	49	.03	56	.018	1927	76	.14	76	.0003
1927	58	.04	64	.024	1928	75	.09	75	.0001
1928	65	.10	69	.049	Tuberculosis (all forms):				
Mumps:					1922			72	1.010
1922	66	.72	66	.0005	1923			77	.981
1923	69	.75	69	.0005	1924			82	.962
1924	75	1.66	76	.0006	1925			69	.926
1925	66	.67	66	.0006	1926			69	.900
1926	63	.76	63	.0009	1927			75	.829
1927	69	1.60	69	.0005	1928			75	.849
1928	68	1.40	68	.0006	Tuberculosis (respiratory system):				
Pellagra:					1922			64	.870
1922			26	.009	1923			67	.846
1923			32	.011	1924			70	.821
1924			32	.009	1925			60	.790
1925			28	.009	1926			61	.779
1926			29	.012	1927			70	.722
1927			34	.019	1928			69	.740
1928			34	.019	Typhoid fever:				
Pneumonia (all forms):					1922	73	.19	73	.033
1922			74	1.359	1923	77	.19	77	.033
1923			75	1.514	1924	81	.22	83	.034
1924			83	1.347	1925	68	.21	69	.035
1925			68	1.327	1926	69	.16	69	.028
1926			69	1.450	1927	74	.14	76	.020
1927			77	1.093	1928	73	.11	75	.020
1928			75	1.386	Whooping cough:				
Poliomyelitis:					1923	76	1.67	76	.064
1924	66	.07	72	.010	1924	77	1.56	81	.054
1925	63	.05	63	.013	1925	65	1.68	68	.056
1926	62	.03	62	.006	1926	67	1.92	67	.064
1927	75	.09	77	.014	1927	72	1.43	77	.038
1928	66	.05	70	.012	1928	71	1.70	75	.048
Scarlet fever:									
1922	73	1.80	73	.033					
1923	77	2.07	77	.035					

Reported Prevalence for the Year 1928

ANTHRAX

City	Cases reported, 1928	Deaths registered, 1928	City	Cases reported, 1928	Deaths registered, 1928
Delaware:			New York:		
Wilmington	2	0	New York	1	0
Louisiana:			Yonkers	9	1
New Orleans	2	0	Pennsylvania:		
Massachusetts:			Philadelphia	16	5
Lynn	3	0	Rhode Island:		
New Jersey:			Providence	1	0
Camden	5	1			

Reported Prevalence for the Year 1928—Continued

CHICKEN POX

City	Estimated population July 1, 1928	Average, 1922-1927	1928				
			Cases reported	Cases per 1,000 inhabitants	Deaths registered	Deaths per 1,000 inhabitants	Cases reported for each death registered
Alabama:							
Birmingham	222,000	315	334	1.50	0		
California:							
Long Beach		375	321		0		
Los Angeles		1,920	2,594		0		
Oakland	274,000	797	1,549	5.65	1	0.00	1,549.0
San Diego	120,000	513	1,387	11.56	0		
San Francisco	585,000	1,398	2,100	3.59	1	.00	2,100.0
Colorado:							
Denver	294,000	1,921	1,523	5.18	1	.00	1,523.0
Connecticut:							
Bridgeport		101	107		0		
Hartford	172,000	217	282	1.64	1	.01	282.0
New Haven	188,000	1,568	516	2.74	0		
Waterbury		63	80		0		
Delaware:							
Wilmington	129,000	138	61	.47	0		
District of Columbia:							
Washington	552,000	1,229	702	1.27	0		
Florida:							
Jacksonville	141,000	1,183	681	4.83	0		
Miami	157,000	1,47	302	1.92	0		
Tampa	113,000	50	172	1.52	0		
Georgia:							
Atlanta	255,000	122	234	.92	0		
Illinois:							
Chicago	3,157,000	4,474	4,926	1.56	6	.00	821.0
Indiana:							
Fort Wayne	105,000	239	107	1.02	0		
Indianapolis	382,000	1,192	1,433	3.75	0		
Iowa:							
Des Moines	152,000	1,20	15	.10	0		
Kansas:							
Kansas City	118,000	282	241	2.04	0		
Kentucky:							
Louisville	329,000	1,178	169	.51	0		
Louisiana:							
New Orleans	429,000	1,101	120	.28	0		
Maryland:							
Baltimore	830,000	3,010	3,202	3.86	0		
Massachusetts:							
Boston	799,000	1,920	2,039	2.55	2	.00	1,019.5
Cambridge	126,000	523	327	2.60	0		
Fall River	134,000	120	106	.79	1	.01	106.0
Lowell	110,000	81	54	.49	0		
Lynn	106,000	90	201	1.90	0		
New Bedford	120,000	110	172	1.43	0		
Somerville	103,000	117	88	.85	0		
Springfield	153,000	267	328	2.19	0		
Worcester	198,000	432	458	2.31	0		
Michigan:							
Detroit	1,379,000	2,539	3,041	2.21	2	.00	1,520.5
Flint	149,000	441	552	3.70	0		
Grand Rapids	164,000	276	218	1.33	0		
Minnesota:							
Duluth	117,000	1,282	266	2.27	0		
Minneapolis	456,000	2,967	4,152	9.11	0		
St. Paul		1,152	1,480		0		
Missouri:							
Kansas City	391,000	656	884	2.26	0		
St. Louis	848,000	1,091	960	1.13	0		
Nebraska:							
Omaha	223,000	312	297	1.33	0		
New Jersey:							
Camden	135,000	229	159	1.18	1	.01	159.0
Elizabeth		274	357		0		
Jersey City	325,000	203	137	.42	0		
Newark	474,000	1,638	1,377	2.91	0		
Paterson	145,000	357	426	2.94	0		
Trepton	134,000	117	96	.69	0		

¹ 5 years only.² 2 years only.³ 4 years only.⁴ Population, State census, 1925.

Reported Prevalence for the Year 1928—Continued

CHICKEN POX—Continued

City	Estimated population, July 1, 1928	Average, 1922-1927	1928				
			Cases reported	Cases per 1,000 inhabitants	Deaths registered	Deaths per 1,000 inhabitants	Cases reported for each death registered
New York:							
Albany.....	120,000	449	459	3.82	0		
Buffalo.....	556,000	972	760	1.37	1	0.00	760.0
New York.....	6,018,000	7,736	7,082	1.18	17	.00	416.6
Rochester.....	328,000	384	467	1.42	0		
Syracuse.....	199,000	573	¹ 927	¹ 4.66	0		
Utica.....	104,000	249	79	.76	0		
Yonkers.....	121,000	227	244	2.02	0		
Ohio:							
Akron.....		314	358		0		
Canton.....	117,000	347	227	1.94	0		
Cincinnati.....	414,000	498	490	1.18	0		
Cleveland.....	1,010,000	2,754	2,956	2.93	1	.00	2,956.0
Columbus.....	299,000	¹ 358	375	1.25	1	.00	375.0
Dayton.....	185,000	135	121	.65	0		
Toledo.....	313,000	1,430	2,024	6.47	0		
Youngstown.....	174,000	350	397	2.28	0		
Oklahoma:							
Oklahoma City.....		104	67		0		
Tulsa.....	171,000		601	3.51			
Oregon:							
Portland.....		559	943		2		471.5
Pennsylvania:							
Erie.....		451	556		0		
Philadelphia.....	2,064,000	4,190	3,201	1.55	3	.00	1,067.0
Pittsburgh.....	674,000	2,055	¹ 1,525	¹ 2.26	¹ 3	¹ .00	¹ 508.3
Reading.....	115,000	411	458	3.98	0		
Rhode Island:							
Providence.....	286,000	153	¹ 159	¹ 5.56	¹ 2	¹ .01	¹ 79.5
Tennessee:							
Knoxville.....	105,000	54	47	.45	0		
Memphis.....	190,000	515	395	2.08	0		
Nashville.....	140,000	91	104	.74	0		
Texas:							
Dallas.....	218,000	499	534	2.45	0		
El Paso.....	118,000	¹ 278	211	1.79	0		
Fort Worth.....	171,000	¹ 162	385	2.25	0		
Houston.....		¹ 61	70		0		
San Antonio.....	218,000	24	29	.13	0		
Utah:							
Salt Lake City.....	138,000	1,062	1,435	10.40	0		
Virginia:							
Norfolk.....	184,000	379	433	2.35	0		
Richmond.....	194,000	186	111	.57	1	.01	111.0
Washington:							
Seattle.....	383,000	1,218	1,070	2.79	0		
Spokane.....	109,000	619	1,107	10.16	0		
Tacoma.....	111,000	266	379	3.41	0		
Wisconsin:							
Milwaukee.....	544,000	¹ 2,393	3,656	6.72	0		
Total:							
75 cities.....	31,415,000	61,779	68,241	2.172	45	.001	1,516.5
86 cities.....		67,153	75,174		47		1,599.4
87 cities.....			75,775				

¹ 5 years only.¹ Includes nonresidents.

DENGUE

City	Cases reported, 1928	Deaths registered, 1928	City	Cases reported, 1928	Deaths registered, 1928
Alabama:			New York:		
Birmingham.....	1	0	New York.....	1	0
Florida:			Oklahoma:		
Tampa.....	1	0	Oklahoma City.....	2	0

Reported Prevalence for the Year 1928—Continued

DIPHTHERIA

City	Estimated population, July 1, 1928	Estimated expectancy		1928				
		Number of years	Cases	Cases reported	Cases per 1,000 inhabitants	Deaths registered	Deaths per 1,000 inhabitants	Cases reported for each death registered
Alabama:								
Birmingham.....	222,000	7	190	136	0.61	9	0.04	15.1
California:								
Long Beach.....		7	138	78		4		19.5
Los Angeles.....		7	1,988	1,221		78		15.7
Oakland.....	274,000	7	534	344	1.26	28	.10	12.3
San Diego.....	120,000	7	219	91	.76	7	.06	13.0
San Francisco.....	585,000	7	1,272	415	.71	20	.03	20.7
Colorado:								
Denver.....	204,000	7	734	295	1.00	13	.04	22.7
Connecticut:								
Bridgeport.....		7	312	249		24		10.4
Hartford.....	172,000	7	310	227	1.32	15	.09	15.1
New Haven.....	188,000	7	68	49	.26	6	.03	8.2
Waterbury.....		7	165	50		3		16.7
Delaware:								
Wilmington.....	129,000	7	157	74	.57	8	.06	9.2
District of Columbia:								
Washington.....	552,000	7	735	1,267	2.30	45	.08	28.2
Florida:								
Jacksonville.....	141,000	2	105	114	.81	7	.05	16.3
Miami.....	157,000	6	79	77	.49	7	.04	11.0
Tampa.....	113,000	6	75	81	.72	4	.04	20.2
Georgia:								
Atlanta.....	255,000	7	290	185	.73	18	.07	10.3
Illinois:								
Chicago.....	3,157,000	7	4,123	4,880	1.55	457	.14	10.7
Indiana:								
Fort Wayne.....	105,000	7	207	170	1.62	7	.07	24.3
Indianapolis.....	382,000	7	476	263	.69	23	.06	11.4
Iowa:								
Des Moines.....	152,000	6	162	38	.25	1	.01	38.0
Kansas:								
Kansas City.....	118,000	7	122	51	.43	5	.04	10.2
Kentucky:								
Louisville.....	329,000	6	460	139	.42	12	.04	11.6
Louisiana:								
New Orleans.....	429,000	7	591	509	1.19	36	.08	14.1
Maryland:								
Baltimore.....	830,000	7	1,318	829	1.00	63	.08	13.2
Massachusetts:								
Boston.....	799,000	7	2,521	989	1.24	63	.08	15.7
Cambridge.....	126,000	7	206	245	1.94	9	.07	27.2
Fall River.....	134,000	7	190	116	.87	4	.03	29.0
Lowell.....	110,000	7	120	110	1.00	13	.12	8.5
Lynn.....	106,000	7	148	172	1.62	7	.07	24.6
New Bedford.....	120,000	7	129	255	2.12	11	.09	23.2
Somerville.....	103,000	7	177	143	1.39	6	.06	23.8
Springfield.....	150,000	7	171	345	2.30	29	.19	11.9
Worcester.....	198,000	7	282	245	1.24	13	.07	18.8
Michigan:								
Detroit.....	1,379,000	7	2,458	1,958	1.42	224	.16	8.7
Flint.....	149,000	7	175	86	.58	5	.03	17.2
Grand Rapids.....	164,000	7	189	33	.20	0		
Minnesota:								
Duluth.....	117,000	7	67	43	.37	2	.02	21.5
Minneapolis.....	456,000	7	1,332	615	1.35	24	.05	25.6
St. Paul.....		7	790	116		5		23.2
Missouri:								
Kansas City.....	391,000	7	272	151	.39	18	.05	8.4
St. Louis.....	848,000	7	1,804	1,506	1.78	77	.09	19.6
Nebraska:								
Omaha.....	223,000	7	304	318	1.43	13	.06	24.5

¹ Population, State census, 1925.² Includes 5 nonresidents.

Reported Prevalence for the Year 1928—Continued

DIPHTHERIA—Continued

City	Estimated population, July 1, 1928	Estimated expectancy		1928				
		Number of years	Cases	Cases reported	Cases per 1,000 inhabitants	Deaths registered	Deaths per 1,000 inhabitants	Cases reported for each death registered
New Jersey:								
Camden.....	135,000	7	327	254	1.88	18	0.13	14.1
Elizabeth.....		7	409	230		18		12.8
Jersey City.....	325,000	7	767	851	2.62	61	.19	14.0
Newark.....	474,000	7	634	1,361	2.87	95	.20	14.3
Paterson.....	145,000	7	236	246	1.70	13	.09	18.9
Trenton.....	139,000	7	247	118	.85	4	.03	29.5
New York:								
Albany.....	120,000	7	212	51	.42	6	.05	8.5
Buffalo.....	556,000	7	686	718	1.29	63	.11	11.4
New York.....	6,018,000	7	9,687	10,776	1.79	642	.11	16.8
Rochester.....	328,000	7	496	262	.80	12	.04	21.8
Syracuse.....	199,000	7	369	378	1.39	34	.02	19.5
Utica.....	104,000	7	347	38	.37	1	.01	38.0
Yonkers.....	121,000	7	227	152	1.26	11	.09	13.8
Ohio:								
Akron.....		7	245	283		28		10.1
Canton.....	117,000	7	213	30	.26	2	.02	15.0
Cincinnati.....	414,000	7	439	430	1.04	36	.09	11.9
Cleveland.....	1,010,000	7	1,788	1,590	1.57	104	.10	15.3
Columbus.....	299,000	7	381	130	.43	6	.02	21.7
Dayton.....	185,000	7	185	89	.48	6	.03	14.8
Toledo.....	313,000	7	386	122	.39	9	.03	13.6
Youngstown.....	174,000	7	172	144	.83	29	.17	5.0
Oklahoma:								
Oklahoma City.....		7	104	228		22		10.4
Tulsa.....	171,000			198	1.16			
Oregon:								
Portland.....		7	604	253		10		25.3
Pennsylvania:								
Erie.....		7	183	182		11		16.5
Philadelphia.....	2,064,000	7	3,310	1,064	.95	230	.11	8.5
Pittsburgh.....	674,000	7	1,321	895	1.33	78	.12	11.5
Reading.....	115,000	7	157	90	.78	7	.06	12.9
Rhode Island:								
Providence.....	286,000	7	429	417	1.46	25	.09	16.7
Tennessee:								
Knoxville.....	105,000	7	69	33	.31	5	.05	6.6
Memphis.....	190,000	7	248	182	.96	11	.06	16.5
Nashville.....	140,000	7	81	139	.99	9	.06	15.4
Texas:								
Dallas.....	218,000	7	338	447	2.05	26	.12	17.2
El Paso.....	118,000	6	61	47	.40	11	.09	4.3
Fort Worth.....	171,000	7	139	258	1.51	10	.06	25.8
Houston.....		7	245	388		14		27.7
San Antonio.....	218,000	6	178	162	.74	27	.12	6.0
Utah:								
Salt Lake City.....	138,000	7	198	86	.62	7	.05	12.3
Virginia:								
Norfolk.....	184,000	7	81	71	.39	7	.04	10.1
Richmond.....	194,000	7	418	307	1.58	13	.07	23.6
Washington:								
Seattle.....	383,000	7	214	86	.22	4	.01	21.5
Spokane.....	109,000	7	234	74	.68	8	.07	9.2
Tacoma.....	111,000	7	153	29	.26	0		
Wisconsin:								
Milwaukee.....	544,000	7	816	382	.70	35	.06	10.9
Total:								
75 cities.....	31,415,000		49,016	40,673	1.295	2,944	.094	13.8
86 cities.....			54,199	43,951		3,161		13.9
87 cities.....				44,149				

* Includes nonresidents.

Reported Prevalence for the Year 1928—Continued

INFLUENZA

City	Estimated population, July 1, 1928	Cases reported, 1928	Cases per 1,000 inhabitants	Deaths registered, 1928	Deaths per 1,000 inhabitants	Cases reported for each death registered
Alabama:						
Birmingham.....	222,000	3,064	13.80	192	0.86	16.0
California:						
Long Beach.....		1,670		34		49.1
Los Angeles.....		13,049		369		35.4
Oakland.....	274,000	115	.42	77	.28	1.5
San Diego.....	120,000	1,877	15.64	63	.52	29.8
San Francisco.....	585,000	4,350	7.44	145	.25	30.0
Colorado:						
Denver.....	294,000	4,169	14.18	313	1.06	13.3
Connecticut:						
Bridgeport.....		63		31		2.0
Hartford.....	172,000	82	.48	20	.12	4.1
New Haven.....	188,000	73	.39	26	.14	2.8
Waterbury.....		44		26		1.7
Delaware:						
Wilmington.....	129,000			22	.17	
District of Columbia:						
Washington.....	552,000	656	1.19	88	.16	7.5
Florida:						
Jacksonville.....	141,000	448	3.18	60	.43	7.5
Miami.....	157,000	90	.57	27	.17	3.3
Tampa.....	113,000	292	2.58	43	.38	6.8
Georgia:						
Atlanta.....	255,000	5,826	22.85	187	.73	31.2
Illinois:						
Chicago.....	3,157,000	4,431	1.40	614	.19	7.2
Indiana:						
Fort Wayne.....	105,000			15	.14	
Indianapolis.....	382,000			166	.43	
Iowa:						
Des Moines.....	152,000			76	.50	
Kansas:						
Kansas City.....	118,000	188	1.59	61	.52	3.1
Kentucky:						
Louisville.....	329,000	702	2.13	3	.01	234.0
Louisiana:						
New Orleans.....	429,000	2,503	5.83	350	.82	7.2
Maryland:						
Baltimore.....	830,000	2,174	2.62	158	.19	13.8
Massachusetts:						
Boston.....	799,000	339	.42	62	.08	5.5
Cambridge.....	126,000	54	.43	5	.04	10.8
Fall River.....	134,000	50	.37	20	.15	2.5
Lowell.....	110,000	22	.20	4	.04	5.5
Lynn.....	106,000	24	.23	6	.06	4.0
New Bedford.....	120,000	13	.11	3	.02	4.3
Somerville.....	103,000	18	.17	0		
Springfield.....	150,000	30	.20	26	.17	1.2
Worcester.....	198,000	32	.16	18	.09	1.8
Michigan:						
Detroit.....	1,379,000	3,277	2.38	320	.23	10.2
Flint.....	149,000	979	6.57	30	.20	32.6
Grand Rapids.....	164,000	800	4.88	87	.53	9.2
Minnesota:						
Duluth.....	117,000	205		54	.46	
Minneapolis.....	456,000	6,317	13.85	163	.36	38.8
St. Paul.....				71		
Missouri:						
Kansas City.....	391,000			165	.42	
St. Louis.....	848,000			10	.01	
New Jersey:						
Camden.....	135,000	35	.26	30	.22	1.2
Elizabeth.....		49		11		4.5
Jersey City.....	325,000			49	.15	
Newark.....	474,000	775	1.64	36	.08	21.5
Paterson.....	145,000	105	.72	15	.10	7.0
Trenton.....	139,000	156	1.12	20	.14	7.8
New York:						
Albany.....	120,000			19	.16	
Buffalo.....	556,000	442	.79	38	.07	11.6
New York.....	6,018,000	2,878	.48	899	.15	3.2
Rochester.....	328,000	96	.29	23	.07	4.2
Syracuse.....	199,000			25	.13	
Yonkers.....	121,000			4	.03	

¹ Population, State census, 1925.² Incomplete report.³ Includes nonresidents.

Reported Prevalence for the Year 1928—Continued

INFLUENZA—Continued

City	Estimated population, July 1, 1928	Cases reported, 1928	Cases per 1,000 inhabitants	Deaths registered, 1928	Deaths per 1,000 inhabitants	Cases reported for each death registered
Ohio:						
Akron.....		1,000		48		20.8
Canton.....	117,000	7,500		22	0.19	
Cincinnati.....	414,000	308	0.74	128	.31	2.4
Cleveland.....	1,010,000	4,670	4.62	209	.21	22.3
Columbus.....	299,000	1,247	4.17	121	.40	10.3
Dayton.....	185,000			52	.28	
Toledo.....	313,000	265	.85	199	.64	1.3
Youngstown.....	174,000	533	3.06	59	.34	9.0
Oklahoma:						
Oklahoma City.....		439		48		9.1
Oregon:						
Portland.....		811		58		14.0
Pennsylvania:						
Erie.....		918		28		32.8
Philadelphia.....	2,064,000	1,310	.63	484	.23	2.7
Pittsburgh.....	674,000			483	.72	
Reading.....	115,000			31	.27	
Rhode Island:						
Providence.....	286,000			25	.09	
Tennessee:						
Knoxville.....	105,000	7,477	71.21	68	.65	110.0
Memphis.....	190,000	3,467	18.25	113	.59	30.7
Nashville.....	140,000	4,000	28.57	108	.77	
Texas:						
Dallas.....	218,000	131	.60	104	.48	1.3
El Paso.....	118,000			83	.70	
Fort Worth.....	171,000	1,231	7.20	44	.26	28.0
Houston.....		284		44		6.5
San Antonio.....	218,000			181	.83	
Utah:						
Salt Lake City.....	138,000			112	.81	
Virginia:						
Norfolk.....	184,000	313	1.70	6	.03	52.2
Richmond.....	194,000	2,058	10.61	45	.23	45.7
Washington:						
Seattle.....	383,000			117	.31	
Spokane.....	109,000	193	1.77	75	.69	2.6
Tacoma.....	111,000	514	4.63	21	.19	24.5
Wisconsin:						
Milwaukee.....	544,000	5,884	10.82	138	.25	42.6
Total:						
53 cities.....	25,965,000	81,083	3.123	6,154	.237	13.2
73 cities.....	31,088,000			7,865	.253	
63 cities.....		99,410				
84 cities.....				8,633		

LETHARGIC ENCEPHALITIS

Alabama:						
Birmingham.....	222,000	6	0.03	2	0.01	3.0
California:						
Los Angeles.....		6		5		1.2
Oakland.....	274,000	2	.01	2	.01	1.0
San Diego.....	120,000	2	.02	2	.02	1.0
San Francisco.....	585,000	13	.02	8	.01	1.6
Colorado:						
Denver.....	294,000			9	.03	
Connecticut:						
Bridgeport.....		4		4		1.0
Hartford.....	172,000			3	.02	
Waterbury.....		6		3		2.0
District of Columbia:						
Washington.....	552,000	6	.01	5	.01	1.2
Florida:						
Jacksonville.....	141,000			3	.02	
Miami.....	157,000	1	.01	1	.01	1.0
Georgia:						
Atlanta.....	255,000			2	.01	
Illinois:						
Chicago.....	3,157,000	29	.01	16	.01	1.8
Iowa:						
Des Moines.....	152,000			5	.03	

* Includes nonresidents.

* For December only.

* Approximated.

Reported Prevalence for the Year 1928—Continued

LETHARGIC ENCEPHALITIS—Continued

City	Estimated population, July 1, 1928	Cases reported, 1928	Cases per 1,000 inhabitants	Deaths registered, 1928	Deaths per 1,000 inhabitants	Cases reported for each death registered
Kansas:						
Kansas City.....	118,000	3	0.03	2	0.02	1.5
Kentucky:						
Louisville.....	329,000	4	.01	2	.01	2.0
Louisiana:						
New Orleans.....	429,000	6	.01	5	.01	1.2
Maryland:						
Baltimore.....	830,000			26	.03	
Massachusetts:						
Boston.....	799,000	20	.03	14	.02	1.4
Cambridge.....	126,000	1	.01	0		
Lowell.....	110,000	2	.02	1	.01	2.0
Lynn.....	106,000	5	.05	3	.03	1.7
Somerville.....	103,000	3	.03	1	.01	3.0
Springfield.....	150,000	1	.01	0		
Worcester.....	198,000	13	.07	9	.05	1.4
Michigan:						
Detroit.....	1,379,000	34	.02	18	.01	1.9
Grand Rapids.....	164,000			2	.01	
Minnesota:						
Duluth.....	117,000			3	.03	
Minneapolis.....	456,000			11	.02	
St. Paul.....				5		
Missouri:						
Kansas City.....	391,000			9	.02	
St. Louis.....	848,000			11	.01	
New Jersey:						
Camden.....	135,000	4	.03	4	.03	1.0
Elizabeth.....		5		5		1.0
Jersey City.....	325,000			3	.01	
Newark.....	474,000	20	.04	5	.01	4.0
Paterson.....	145,000			2	.01	
Trenton.....	139,000	2	.01	2	.01	1.0
New York:						
Albany.....	120,000	4	.03	2	.02	2.0
Buffalo.....	556,000	7	.01	3	.01	2.3
New York.....	6,018,000	193	.03	110	.02	1.8
Rochester.....	328,000	2	.01	0		
Syracuse.....	199,000			1	.01	
Yonkers.....	121,000	2	.02	2	.02	1.0
Ohio:						
Akron.....				1		
Canton.....	117,000			5	.04	
Cincinnati.....	414,000			3	.01	
Cleveland.....	1,010,000	17	.02	11	.01	1.5
Columbus.....	299,000			13	.04	
Dayton.....	185,000			7	.04	
Toledo.....	313,000	8	.03	7	.02	1.1
Youngstown.....	174,000			1	.01	
Oklahoma:						
Oklahoma City.....				7		
Oregon:						
Portland.....				5		
Pennsylvania:						
Erie.....		1		1		1.0
Philadelphia.....	2,064,000	33	.02	31	.02	1.1
Pittsburgh.....	674,000			16	.02	
Reading.....	115,000			3	.03	
Rhode Island:						
Providence.....	286,000	2	.01	2	.01	1.0
Tennessee:						
Memphis.....	190,000	4	.02	4	.02	1.0
Nashville.....	140,000	9	.06	6	.04	1.5
Texas:						
Dallas.....	218,000	4	.02	4	.02	1.0
El Paso.....	118,000			3	.03	
Fort Worth.....	171,000			11	.06	
Houston.....		1		1		1.0
San Antonio.....	218,000			2	.01	
Utah:						
Salt Lake City.....	138,000			3	.02	
Virginia:						
Norfolk.....	184,000			2	.01	
Richmond.....	94,000			3	.02	
Washington:						
Seattle.....	383,000			4	.01	
Spokane.....	109,000	9	.08	8	.07	1.1
Tacoma.....	111,000			3	.03	

¹ Population, State census, 1925.² Incomplete report.³ Includes nonresidents.

Reported Prevalence for the Year 1928—Continued

LETHARGIC ENCEPHALITIS—Continued

City	Estimated population, July 1, 1928	Cases reported, 1928	Cases per 1,000 inhabitants	Deaths registered, 1928	Deaths per 1,000 inhabitants	Cases reported for each death registered
Wisconsin:						
Milwaukee.....	544,000	11	0.02	4	0.01	2.7
Total:						
35 cities.....	21,679,000	482	.022	296	.014	1.6
64 cities.....	29,663,000			465	.016	
41 cities.....		505				
74 cities.....				502		

MALARIA

Alabama:						
Birmingham.....	222,000	121	0.55	8	0.04	15.1
California:						
Los Angeles.....		1		0		
Oakland.....	274,000	3	.01	0		
San Francisco.....	585,000	2	.00	1	.00	2.0
Connecticut:						
Hartford.....	172,000	1	.01	0		
District of Columbia:						
Washington.....	552,000			1	.00	
Florida:						
Jacksonville.....	141,000	37	.26	13	.09	2.8
Miami.....	157,000	10	.06	1	.01	10.0
Tampa.....	113,000	31	.27	3	.03	10.3
Georgia:						
Atlanta.....	255,000	15	.06	3	.01	5.0
Illinois:						
Chicago.....	3,157,000	15	.00	1	.00	15.0
Kentucky:						
Louisville.....	329,000	1	.00	0		
Louisiana:						
New Orleans.....	429,000	156	.36	3	.01	52.0
Maryland:						
Baltimore.....	830,000	1	.00	1	.00	1.0
Massachusetts:						
Boston.....	799,000	7	.01	0		
Cambridge.....	126,000	1	.01	0		
Lynn.....	106,000			1	.01	
Michigan:						
Detroit.....	1,379,000	33	.02	0		
Flint.....	149,000	9	.06	0		
Missouri:						
Kansas City.....	391,000			4	.01	
St. Louis.....	848,000	85	.10	8	.01	10.6
New Jersey:						
Trenton.....	139,000	1	.01	0		
New York:						
Buffalo.....	556,000	2	.00	0		
New York.....	6,018,000	69	.01	5	.00	13.8
Ohio:						
Akron.....		2		1		2.0
Cleveland.....	1,010,000	11	.01	0		
Oklahoma:						
Okiahoma City.....		2		2		1.0
Oregon:						
Portland.....				1		
Pennsylvania:						
Philadelphia.....	2,064,000			3	.00	
Tennessee:						
Knoxville.....	105,000	1	.01	0		
Memphis.....	190,000	671	3.53	22	.12	30.5
Nashville.....	140,000	78	.56	2	.01	39.0
Texas:						
Dallas.....	218,000	13	.06	9	.04	1.4
Fort Worth.....	171,000			4	.02	
Houston.....				6		
San Antonio.....	218,000			7	.03	
Virginia:						
Norfolk.....	184,000	3	.02	1	.01	3.0
Total:						
26 cities.....	18,525,000	1,377	.074	81	.004	17.0
32 cities.....	22,027,000			101	.005	
29 cities.....		1,382				
37 cities.....				111		

Reported Prevalence for the Year 1928—Continued

MEASLES

City	Estimated population, July 1, 1928	Estimated expectancy		1928				
		Number of years	Cases	Cases re-reported	Cases per 1,000 inhabitants	Deaths registered	Deaths per 1,000 inhabitants	Cases reported for each death registered
Alabama:								
Birmingham	222,000	7	821	1,357	6.11	16	0.07	84.8
California:								
Long Beach		7	347	324		0		
Los Angeles		6	2,277	666		4		166.5
Oakland	274,000	7	624	133	.49	1	.00	133.0
San Diego	120,000	5	304	220	1.83	0		
San Francisco	585,000	7	1,892	693	1.18	1	.00	693.0
Colorado:								
Denver	294,000	5	888	1,245	4.23	1	.00	1,245.0
Connecticut:								
Bridgeport		7	409	276		7		39.4
Hartford	172,000	7	367	895	5.20	12	.07	74.6
New Haven	188,000	7	957	2,853	15.18	14	.07	203.8
Waterbury		7	75	171		2		85.5
Delaware:								
Wilmington	129,000	7	198	416	3.22	1	.01	416.0
District of Columbia:								
Washington	552,000	7	794	3,576	6.48	17	.03	210.4
Florida:								
Jacksonville	141,000	2	1,159	877	6.22	4	.03	219.2
Miami	157,000	6	163	73	.46	0		
Tampa	113,000	5	112	27	.24	0		
Georgia:								
Atlanta	255,000	7	486	346	1.36	5	.02	69.2
Illinois:								
Chicago	3,157,000	7	11,673	1,602	.51	24	.01	66.7
Indiana:								
Fort Wayne	105,000	7	660	35	.33	0		
Indianapolis	382,000	5	566	2,293	6.00	4	.01	573.2
Iowa:								
Des Moines	152,000	5	50	40	.26	0		
Kansas:								
Kansas City	118,000	7	366	241	2.04	1	.01	241.0
Kentucky:								
Louisville	329,000	6	1,096	1,720	5.23	0		
Louisiana:								
New Orleans	429,000	7	411	47	.11	2	.00	23.5
Maryland:								
Baltimore	830,000	7	4,256	12,229	14.73	64	.08	191.1
Massachusetts:								
Boston	799,000	7	4,758	8,220	10.29	71	.09	115.8
Cambridge	126,000	7	908	2,082	16.52	11	.09	189.3
Fall River	134,000	7	537	1,518	11.33	18	.13	84.3
Lowell	110,000	5	196	1,382	12.56	6	.05	230.3
Lynn	106,000	7	504	1,403	13.24	3	.03	467.7
New Bedford	120,000	6	452	531	4.42	0		
Somerville	103,000	7	489	842	8.17	4	.04	210.5
Springfield	150,000	5	146	1,081	7.21	7	.05	154.4
Worcester	198,000	6	604	982	4.96	3	.02	327.3
Michigan:								
Detroit	1,379,000	6	3,165	14,711	10.67	163	.12	90.3
Flint	149,000	7	337	2,009	13.48	26	.17	77.3
Grand Rapids	164,000	5	181	579	3.53	2	.01	289.5
Minnesota:								
Duluth	117,000	7	186	18	.15	0		
Minneapolis	456,000	6	1,054	1,653	3.62	6	.01	275.5
St. Paul		7	689	137		0		
Missouri:								
Kansas City	391,000	7	1,350	1,102	2.82	4	.01	275.5
St. Louis	848,000	7	878	4,995	5.89	33	.04	151.4
Nebraska:								
Omaha	223,000	7	611	37	.17	0		
New Jersey:								
Camden	135,000	7	147	953	7.06	18	.13	52.9
Elizabeth		7	394	259		0		
Jersey City	325,000	7	588	1,369	4.21	32	.10	42.8
Newark	474,000	7	3,031	6,329	13.35	47	.10	134.7
Paterson	145,000	6	669	2,027	13.98	6	.04	337.8
Trenton	139,000	7	300	301	2.17	4	.03	75.2

¹ Population, State census, 1925.

Reported Prevalence for the Year 1928—Continued

MEASLES—Continued

City	Estimated population, July 1, 1928	Estimated expectancy		1928				
		Number of years	Cases	Cases reported	Cases per 1,000 inhabitants	Deaths registered	Deaths per 1,000 inhabitants	Cases reported for each death registered
New York:								
Albany.....	120,000	7	891	44	0.37	0		
Buffalo.....	556,000	7	1,036	6,502	11.69	31	0.06	209.7
New York.....	6,018,000	7	13,999	35,008	5.82	346	.06	101.2
Rochester.....	328,000	7	1,712	1,569	4.78	6	.02	261.5
Syracuse.....	199,000	7	1,446	² 2,817	² 14.16	² 10	² .05	² 281.7
Utica.....	104,000	7	809	24	.23	0		
Yonkers.....	121,000	7	337	980	8.10	3	.02	326.7
Ohio:								
Akron.....		7	551	575		3		191.7
Canton.....	117,000	7	612	505	4.32	2	.02	252.5
Cincinnati.....	414,000	7	1,410	3,374	8.15	44	.11	76.7
Cleveland.....	1,010,000	7	2,466	3,211	3.18	14	.01	229.4
Columbus.....	299,000	6	595	1,556	5.20	9	.03	172.9
Dayton.....	185,000	7	55	173	.94	8	.04	21.6
Toledo.....	313,000	7	2,097	5,476	17.50	7	.02	782.3
Youngstown.....	174,000	7	817	922	5.30	0		
Oklahoma:								
Oklahoma City.....		7	77	360		1		360.0
Tulsa.....	171,000			78	.46			
Oregon:								
Portland.....		5	983	634		3		211.3
Pennsylvania:								
Erie.....		7	657	157		1		157.0
Philadelphia.....	2,064,000	6	5,752	15,630	7.57	150	.07	104.2
Pittsburgh.....	674,000	6	3,812	² 3,980	² 5.91	² 46	² .07	² 86.5
Reading.....	115,000	5	479	411	3.57	0		
Rhode Island:								
Providence.....	286,000	7	1,928	² 4,007	² 14.01	² 36	² .13	² 111.3
Tennessee:								
Knoxville.....	105,000	7	318	413	3.93	6	.06	68.8
Memphis.....	190,000	7	949	2,132	11.22	9	.05	236.9
Nashville.....	140,000	7	250	556	3.97	4	.03	139.0
Texas:								
Dallas.....	218,000	5	1,641	206	.94	1	.00	206.0
El Paso.....	118,000	6	671	1,906	16.15	98	.83	19.4
Fort Worth.....	171,000	5	18	111	.65	3	.02	37.0
Houston.....		5	31	553		6		92.2
San Antonio.....	218,000	7	85	510	2.34	75	.34	6.8
Utah:								
Salt Lake City.....	138,000	7	1,939	55	.40	1	.01	55.0
Virginia:								
Norfolk.....	184,000	5	249	873	4.74	0		
Richmond.....	194,000	5	1,265	2,263	11.66	9	.05	251.4
Washington:								
Seattle.....	383,000	6	1,132	3,116	8.14	7	.02	446.1
Spokane.....	109,000	7	1,245	202	1.85	0		
Tacoma.....	111,000	7	123	406	3.66	0		
Wisconsin:								
Milwaukee.....	544,000	7	4,381	829	1.52	0		
Total:								
75 cities.....	31,415,000		103,453	184,809	5.883	1,556	.050	118.8
86 cities.....			109,943	188,921		1,583		119.3
87 cities.....				188,999				

² Includes nonresidents.

Reported Prevalence for the Year 1928—Continued

MENINGOCOCCUS MENINGITIS

City	Estimated population, July 1, 1928	Estimated expectancy		1928				
		Number of years	Cases	Cases reported	Cases per 1,000 inhabitants	Deaths registered	Deaths per 1,000 inhabitants	Cases reported for each death registered
Alabama:								
Birmingham.....	222,000	7	5	8	0.04	7	0.03	1.1
California:								
Long Beach.....		4	3	6		6		1.0
Los Angeles.....		7	25	61		29		2.1
Oakland.....	274,000	5	4	11	.04	4	.01	2.7
San Diego.....	120,000	6	5	14	.12	7	.06	2.0
San Francisco.....	585,000	7	19	40	.07	22	.04	1.8
Colorado:								
Denver.....	294,000	5	1	103	.35	67	.23	1.5
Connecticut:								
Bridgeport.....		7	5	8		7		1.1
Hartford.....	172,000	6	4			4	.02	
New Haven.....	188,000	6	6	7	.04	1	.01	7.0
Waterbury.....		7	4	2		2		1.0
Delaware:								
Wilmington.....	129,000	7	2			1	.01	
District of Columbia:								
Washington.....	552,000	7	4	8	.01	5	.01	1.6
Florida:								
Jacksonville.....	141,000	2	0	8	.06	0		
Tampa.....	113,000	3	3	4	.04	3	.03	1.3
Georgia:								
Atlanta.....	255,000	4	6	7	.03	7	.03	1.0
Illinois:								
Chicago.....	3,157,000	7	55	364	.12	181	.06	2.0
Indiana:								
Fort Wayne.....	105,000	6	0	3	.03	1	.01	3.0
Indianapolis.....	382,000	7	4	8	.02	2	.01	4.0
Iowa:								
Des Moines.....	152,000	4	1	5	.03	3	.02	1.7
Kansas:								
Kansas City.....	118,000	6	8	31	.26	12	.10	2.6
Kentucky:								
Louisville.....	329,000	5	5	7	.02	4	.01	1.7
Louisiana:								
New Orleans.....	429,000	6	7	18	.04	7	.02	2.6
Maryland:								
Baltimore.....	830,000	7	24	17	.02	9	.01	1.9
Massachusetts:								
Boston.....	799,000	7	35	30	.04	17	.02	1.8
Cambridge.....	126,000	7	4	1	.01	0		
Fall River.....	134,000	6	6	3	.02	3	.02	1.0
Lowell.....	110,000	6	4	3	.03	0		
Lynn.....	106,000	7	5	2	.02	1	.01	2.0
New Bedford.....	120,000	6	3	2	.02	2	.02	1.0
Somerville.....	103,000	7	2	1	.01	1	.01	1.0
Springfield.....	150,000	4	3	6	.04	3	.02	2.0
Michigan:								
Detroit.....	1,379,000	6	46	153	.11	100	.07	1.5
Flint.....	149,000	5	0			9	.06	
Grand Rapids.....	164,000	6	0	3	.02	1	.01	3.0
Minnesota:								
Duluth.....	117,000	5	4	17	.15	5	.04	3.4
Minneapolis.....	456,000	5	5	38	.08	11	.02	3.5
St. Paul.....		7	3	14		5		2.8
Missouri:								
Kansas City.....	391,000	6	14	80	.20	65	.17	1.2
St. Louis.....	848,000	7	29	156	.18	51	.06	3.1
Nebraska:								
Omaha.....	223,000	5	1	14	.06	1	.00	14.0
New Jersey:								
Camden.....	135,000	7	0	2	.01	2	.01	1.0
Elizabeth.....		3	2			2		
Jersey City.....	325,000	7	12	34	.10	5	.02	6.8
Newark.....	474,000	7	20	36	.08	14	.03	2.6
Paterson.....	145,000	5	4	7	.05	0		

¹ Population, State census, 1925.

Reported Prevalence for the Year 1928—Continued

MENINGOCOCCUS MENINGITIS—Continued

City	Estimated population, July 1, 1928	Estimated expectancy		1928				
		Number of years	Cases	Cases re-reported	Cases per 1,000 inhabitants	Deaths registered	Deaths per 1,000 inhabitants	Cases reported for each death registered
New York:								
Albany.....	120,000	5	2	1	0.01	1	0.01	1.0
Buffalo.....	556,000	7	12	14	.03	8	.01	1.7
New York.....	6,018,000	7	170	1,102	.18	540	.09	2.0
Rochester.....	328,000	4	2	4	.01	2	.01	2.0
Syracuse.....	199,000	6	0	2	.01	1	.01	2.0
Utica.....	104,000	7	0	2	.02	0		
Yonkers.....	121,000	7	2	6	.05	2	.02	3.0
Ohio:								
Akron.....		5	3	5		3		1.7
Cincinnati.....	414,000	4	8	18	.04	13	.03	1.4
Cleveland.....	1,010,000	6	21	101	.10	40	.04	2.5
Columbus.....	299,000	5	4	8	.03	7	.02	1.1
Dayton.....	185,000	5	2	7	.04	5	.03	1.4
Toledo.....	313,000	6	2	30	.10	17	.05	1.8
Youngstown.....	174,000	5	1	15	.09	6	.03	2.5
Oklahoma:								
Oklahoma City.....		7	1	4		4		1.0
Tulsa.....	171,000			16	.09			
Oregon:								
Portland.....		4	7	17		10		1.7
Pennsylvania:								
Erie.....		7	0	1		1		1.0
Philadelphia.....	2,064,000	7	25	68	.03	33	.02	2.1
Pittsburgh.....	674,000	5	12	79	.12	41	.06	1.9
Reading.....	115,000	6	1	2	.02	2	.02	1.0
Rhode Island:								
Providence.....	286,000	7	6	7	.02	4	.01	1.7
Tennessee:								
Memphis.....	190,000	7	7	22	.12	13	.07	1.7
Nashville.....	140,000	7	5	11	.08	8	.06	1.4
Texas:								
Dallas.....	218,000	5	4	3	.01	3	.01	1.0
Fort Worth.....	171,000	6	0			17	.10	
Houston.....		5	1	7		1		7.0
San Antonio.....	218,000			4	.02	3	.01	1.3
Utah:								
Salt Lake City.....	138,000	5	4	44	.32	20	.14	2.2
Virginia:								
Norfolk.....	184,000	6	3	4	.02	2	.01	2.0
Richmond.....	194,000	6	3	4	.02	1	.01	4.0
Washington:								
Seattle.....	383,000			22	.06	9	.02	2.4
Spokane.....	109,000	7	2	37	.34	18	.17	2.1
Tacoma.....	111,000	5	6	7	.06	5	.05	1.4
Wisconsin:								
Milwaukee.....	544,000			95	.17	51	.09	1.9
Total:								
62 cities.....	28,815,000		660	2,849	.099	1,416	.049	2.0
65 cities.....	29,960,000			2,970	.099	1,479	.049	2.0
69 cities.....	30,581,000					1,510	.049	
76 cities.....				3,111				
80 cities.....						1,580		

* Includes nonresidents.

Reported Prevalence for the Year 1928—Continued

MUMPS

City	Estimated population, July 1, 1928	Aver- age, 1922- 1927	1928				
			Cases re- ported	Cases per 1,000 inhab- itants	Deaths regis- tered	Deaths per 1,000 inhab- itants	Cases reported for each death regis- tered
California:							
Long Beach.....		227	124		0		
Los Angeles.....		347	1,433		1		1,433.0
Oakland.....	274,000	¹ 82	418	1.53	0		
San Diego.....	120,000	¹ 83	328	2.73	0		
San Francisco.....	585,000	² 411	1,072	1.83	0		
Colorado:							
Denver.....	294,000	¹ 197	2,419	8.23	0		
Connecticut:							
Bridgeport.....		39	16		0		
Hartford.....	172,000	108	227	1.32	0		
New Haven.....	188,000	¹ 19	1,186	6.31	0		
Waterbury.....		29	83		1		83.0
Delaware:							
Wilmington.....	129,000	² 15	129	1.00	0		
Florida:							
Jacksonville.....	141,000	³ 260	77	.55	0		
Miami.....	157,000	¹ 8	153	.97	0		
Tampa.....	113,000	¹ 11	58	.51	0		
Georgia:							
Atlanta.....	255,000	105	195	.76	0		
Illinois:							
Chicago.....	3,157,000	1,888	1,182	.37	1	0.00	1,182.0
Indiana:							
Indianapolis.....	382,000	¹ 161	1,987	5.20	0		
Kansas:							
Kansas City.....	118,000	271	392	3.32	0		
Kentucky:							
Louisville.....	329,000	⁴ 20	199	.60	0		
Maryland:							
Baltimore.....	830,000	1,840	1,213	1.46	2	.00	606.5
Massachusetts:							
Boston.....	799,000	1,277	282	.35	0		
Cambridge.....	126,000	441	38	.30	0		
Fall River.....	134,000	69	23	.17	0		
Lowell.....	³ 110,000	77	26	.24	0		
Lynn.....	106,000	60	137	1.29	0		
New Bedford.....	³ 120,000	62	116	.97	0		
Somerville.....	103,000	79	21	.20	0		
Springfield.....	150,000	193	891	5.94	0		
Worcester.....	198,000	246	1,340	6.77	0		
Michigan:							
Detroit.....	1,379,000	² 503	1,249	.91	0		
Flint.....	149,000	218	2,267	15.21	0		
Grand Rapids.....	164,000	162	310	1.89	0		
Minnesota:							
Duluth.....	117,000	102	220	1.88	0		
Minneapolis.....	456,000	¹ 106	2,845	6.24	0		
St. Paul.....		310	1,215		0		
Missouri:							
Kansas City.....	391,000	342	2,540	6.50	0		
St. Louis.....	848,000	595	400	.47	0		
Nebraska:							
Omaha.....	223,000	³ 18	60	.27	0		

¹ 5 years only.² 4 years only.³ 2 years only.⁴ 3 years only.⁵ Population, State census, 1925.

NOTIFIABLE DISEASES—LARGE CITIES—1928

17

Reported Prevalence for the Year 1928—Continued

MUMPS—Continued

City	Estimated population, July 1, 1928	Average, 1922-1927	1928				
			Cases reported	Cases per 1,000 inhabitants	Deaths registered	Deaths per 1,000 inhabitants	Cases reported for each death registered
New Jersey:							
Camden.....	135,000	53	107	0.79	0	-----	-----
Elizabeth.....	-----	279	327	-----	0	-----	-----
Newark.....	474,000	1,050	777	1.64	0	-----	-----
Paterson.....	145,000	79	11	.08	0	-----	-----
Trenton.....	139,000	14	26	.19	0	-----	-----
New York:							
Albany.....	120,000	111	51	.42	0	-----	-----
Buffalo.....	556,000	455	1,145	2.06	3	0.01	381.7
New York.....	6,018,000	4,149	1,420	.24	0	-----	-----
Rochester.....	328,000	390	684	2.09	0	-----	-----
Syracuse.....	199,000	382	633	3.17	0	-----	-----
Utica.....	104,000	93	86	.83	0	-----	-----
Yonkers.....	121,000	140	185	1.53	0	-----	-----
Ohio:							
Akron.....	-----	298	215	-----	0	-----	-----
Canton.....	117,000	195	497	4.25	0	-----	-----
Cincinnati.....	414,000	1350	65	.16	0	-----	-----
Cleveland.....	1,010,000	1266	3,611	3.58	0	-----	-----
Columbus.....	299,000	149	197	.66	2	.01	98.5
Dayton.....	185,000	110	19	.10	0	-----	-----
Toledo.....	313,000	117	381	1.22	0	-----	-----
Youngstown.....	174,000	20	55	.32	0	-----	-----
Oklahoma:							
Tulsa.....	171,000	-----	624	3.65	-----	-----	-----
Oregon:							
Portland.....	-----	160	129	-----	1	-----	129.0
Pennsylvania:							
Erie.....	-----	171	256	-----	0	-----	-----
Philadelphia.....	2,064,000	1889	2,041	.99	0	-----	-----
Pittsburgh.....	674,000	1442	2,035	3.02	2	.00	1,017.5
Reading.....	115,000	321	47	.41	0	-----	-----
Rhode Island:							
Providence.....	286,000	58	164	.57	0	-----	-----
Tennessee:							
Knoxville.....	105,000	33	7	.07	0	-----	-----
Memphis.....	190,000	194	396	2.08	1	.01	396.0
Nashville.....	140,000	25	90	.64	2	.01	45.0
Texas:							
Dallas.....	218,000	119	5	.02	0	-----	-----
El Paso.....	118,000	1206	333	2.82	2	.02	166.5
Fort Worth.....	171,000	17	81	.47	1	.01	81.0
Houston.....	-----	18	20	-----	0	-----	-----
San Antonio.....	218,000	4	18	.08	0	-----	-----
Virginia:							
Norfolk.....	184,000	146	64	.35	0	-----	-----
Richmond.....	194,000	70	44	.23	0	-----	-----
Washington:							
Seattle.....	383,000	985	336	.88	0	-----	-----
Spokane.....	109,000	82	97	.89	1	.01	97.0
Tacoma.....	111,000	93	1,097	9.88	0	-----	-----
Wisconsin:							
Milwaukee.....	544,000	1,003	828	1.52	0	-----	-----
Total:							
68 cities.....	29,492,000	22,429	41,333	1.401	17	.0006	2,431.4
78 cities.....	-----	24,197	45,151	-----	20	-----	2,257.6
79 cities.....	-----	-----	45,775	-----	-----	-----	-----

¹ 5 years only.

² 4 years only.

³ Includes nonresidents.

18. NOTIFIABLE DISEASES—LARGE CITIES—1928

Reported Prevalence for the Year 1928—Continued

PELLAGRA

City	Estimated population, July 1, 1928	Cases reported, 1928	Cases per 1,000 inhabitants	Deaths registered, 1928	Deaths per 1,000 inhabitants	Cases reported for each death registered
Alabama:						
Birmingham	222,000	45	0.20	31	0.14	1.5
California:						
Long Beach		1		0		
Los Angeles		12		7		1.7
Oakland	274,000			4	.01	
San Diego	120,000			1	.01	
San Francisco	585,000	8	.01	8	.01	1.0
Colorado:						
Denver	294,000			1	.00	
District of Columbia:						
Washington	552,000	2	.00	2	.00	1.0
Florida:						
Jacksonville	141,000			46	.33	
Miami	157,000	14	.09	10	.03	1.4
Tampa	113,000			14	.12	
Georgia:						
Atlanta	255,000			48	.19	
Illinois:						
Chicago	3,157,000			28	.01	
Kentucky:						
Louisville	329,000	1	.00	0		
Louisiana:						
New Orleans	429,000	129	.30	43	.10	3.0
Maryland:						
Baltimore	830,000			6	.01	
Massachusetts:						
Boston	799,000	13	.02	4	.01	3.2
Michigan:						
Detroit	1,379,000	2	.00	2	.00	1.0
Minnesota:						
Minneapolis	456,000	7	.02	1	.00	7.0
Missouri:						
Kansas City	391,000			3	.01	
St. Louis	848,000			9	.01	
New York:						
New York	6,018,000	4	.00	4	.00	1.0
Syracuse	199,000			1	.01	
Ohio:						
Cleveland	1,010,000			13	.01	
Oklahoma:						
Oklahoma City				5		
Pennsylvania:						
Philadelphia	2,064,000	7	.00	7	.00	1.0
Rhode Island:						
Providence	286,000	1	.00	1	.00	1.0
Tennessee:						
Knoxville	105,000			25	.24	
Memphis	190,000	24	.13	16	.08	1.5
Nashville	140,000	26	.19	9	.06	2.9
Texas:						
Dallas	218,000	34	.16	34	.16	1.0
El Paso	118,000			3	.03	
Fort Worth	171,000			36	.21	
Houston				21		
San Antonio	218,000			14	.06	
Virginia:						
Norfolk	184,000	4	.02	4	.02	1.0
Richmond	194,000			11	.06	
Washington:						
Seattle	383,000			1	.00	
Total:						
34 cities	22,829,000			440	.019	
38 cities				473		

Reported Prevalence for the Year 1928—Continued

PNEUMONIA (ALL FORMS)

City	Estimated population, July 1, 1928	Cases reported, 1928	Cases per 1,000 inhabitants	Deaths registered, 1928	Deaths per 1,000 inhabitants	Cases reported for each death registered
Alabama:						
Birmingham.....	222,000	826	3.72	407	1.83	2.0
California:						
Long Beach.....				153		
Los Angeles.....		3,059		920		3.3
Oakland.....	274,000			234	.85	
San Diego.....	120,000	272	2.27	177	1.47	1.5
San Francisco.....	585,000			566	.97	
Colorado:						
Denver.....	294,000			521	1.77	
Connecticut:						
Bridgeport.....		466		178		2.6
Hartford.....	172,000	487	2.83	146	.85	3.3
New Haven.....	188,000	267	1.42	242	1.29	1.1
Waterbury.....		172		109		1.6
Delaware:						
Wilmington.....	129,000			152	1.18	
District of Columbia:						
Washington.....	552,000	1,339	2.43	635	1.15	2.1
Florida:						
Jacksonville.....	141,000			181	1.28	
Miami.....	157,000	102	.65	51	.32	2.0
Tampa.....	113,000			70	.62	
Georgia:						
Atlanta.....	255,000	658	2.58	421	1.65	1.6
Illinois:						
Chicago.....	3,157,000	11,626	3.68	4,380	1.39	2.7
Indiana:						
Fort Wayne.....	105,000			115	1.10	
Indianapolis.....	382,000			572	1.50	
Iowa:						
Des Moines.....	152,000			116	.76	
Kansas:						
Kansas City.....	118,000			219	1.86	
Kentucky:						
Louisville.....	329,000	429	1.30	245	.74	1.8
Louisiana:						
New Orleans.....	429,000	713	1.66	682	1.59	1.0
Maryland:						
Baltimore.....	830,000	2,061	2.48	1,431	1.72	1.4
Massachusetts: ¹						
Boston.....	799,000	1,646	2.06	1,352	1.69	
Cambridge.....	126,000	239	1.90	175	1.39	
Fall River.....	134,000	173	1.29	117	.87	
Lowell.....	² 110,000	70	.64	135	1.23	
Lynn.....	106,000	129	1.22	117	1.10	
New Bedford.....	² 120,000	84	.70	125	1.04	
Somerville.....	103,000	155	1.50	161	1.56	
Springfield.....	150,000	169	1.13	127	.85	
Worcester.....	198,000	299	1.51	115	.58	
Michigan:						
Detroit.....	1,379,000	5,764	4.18	1,867	1.35	3.1
Flint.....	149,000			221	1.48	
Grand Rapids.....	164,000	158	.96	111	.68	1.4
Minnesota:						
Duluth.....	117,000			81	.69	
Minneapolis.....	456,000			467	1.02	
St. Paul.....				347		
Missouri:						
Kansas City.....	391,000			592	1.51	
St. Louis.....	848,000			1,102	1.30	

¹ Cases of pneumonia reported by cities in Massachusetts are lobar only; deaths are for all forms.² Population, State census, 1925.

Reported Prevalence for the Year 1928—Continued

PNEUMONIA (ALL FORMS)—Continued

City	Estimated population, July 1, 1928	Cases reported, 1928	Cases per 1,000 inhabitants	Deaths registered, 1928	Deaths per 1,000 inhabitants	Cases reported for each death registered
Nebraska:						
Omaha.....	223,000	-----	-----	363	1.63	-----
New Jersey:						
Camden.....	135,000	302	2.24	203	1.50	1.5
Elizabeth.....	-----	-----	-----	154	-----	-----
Jersey City.....	325,000	-----	-----	595	1.83	-----
Newark.....	474,000	2,851	6.01	632	1.33	4.5
Paterson.....	145,000	-----	-----	199	1.37	-----
Trenton.....	139,000	-----	-----	163	1.17	-----
New York:						
Albany.....	120,000	532	4.43	191	1.59	2.8
Buffalo.....	556,000	1,475	2.65	795	1.43	1.9
New York.....	6,018,000	21,079	3.50	10,019	1.66	2.1
Rochester.....	328,000	1,226	3.74	300	.91	4.1
Syracuse.....	199,000	¹ 1,201	² 6.04	³ 266	³ 1.34	³ 4.5
Utica.....	104,000	523	5.03	133	1.28	3.9
Yonkers.....	121,000	284	2.35	194	1.60	1.5
Ohio:						
Akron.....	-----	-----	-----	393	-----	-----
Canton.....	117,000	-----	-----	221	1.89	-----
Cincinnati.....	414,000	-----	-----	682	1.65	-----
Cleveland.....	1,010,000	2,430	2.41	1,014	1.00	2.4
Columbus.....	299,000	268	.90	247	.83	1.1
Dayton.....	185,000	-----	-----	32	.17	-----
Toledo.....	313,000	329	1.05	316	1.01	1.0
Youngstown.....	174,000	-----	-----	182	1.05	-----
Oklahoma:						
Oklahoma City.....	-----	801	-----	240	-----	3.3
Oregon:						
Portland.....	-----	-----	-----	287	-----	-----
Pennsylvania:						
Erie.....	-----	227	-----	107	-----	2.1
Philadelphia.....	2,064,000	-----	-----	2,903	1.41	-----
Pittsburgh.....	674,000	² 4,393	² 6.52	³ 1,569	³ 2.33	³ 2.8
Reading.....	115,000	-----	-----	116	1.01	-----
Rhode Island:						
Providence.....	286,000	-----	-----	³ 317	³ 1.11	-----
Tennessee:						
Knoxville.....	105,000	-----	-----	301	2.87	-----
Memphis.....	190,000	-----	-----	310	1.63	-----
Nashville.....	140,000	247	1.76	221	1.58	1.1
Texas:						
Dallas.....	218,000	-----	-----	208	.95	-----
El Paso.....	118,000	-----	-----	195	1.65	-----
Fort Worth.....	171,000	-----	-----	189	1.11	-----
Houston.....	-----	-----	-----	377	-----	-----
San Antonio.....	218,000	-----	-----	366	1.68	-----
Utah:						
Salt Lake City.....	138,000	-----	-----	126	.91	-----
Virginia:						
Norfolk.....	184,000	-----	-----	218	1.18	-----
Richmond.....	194,000	-----	-----	240	1.24	-----
Washington:						
Seattle.....	383,000	-----	-----	236	.62	-----
Spokane.....	109,000	147	1.35	137	1.26	1.1
Tacoma.....	111,000	-----	-----	100	.90	-----
Wisconsin:						
Milwaukee.....	544,000	1,259	2.31	628	1.15	2.0
Total:						
75 cities.....	31,415,000	-----	-----	43,555	1.386	-----
86 cities.....	-----	-----	-----	46,820	-----	-----

¹ Includes nonresidents.

Reported Prevalence for the Year 1928—Continued

POLIOMYELITIS (INFANTILE PARALYSIS)

City	Estimated population, July 1, 1928	Estimated expectancy		1928				
		Number of years	Cases	Cases reported	Cases per 1,000 inhabitants	Deaths registered	Deaths per 1,000 inhabitants	Cases reported for each death registered
Alabama:								
Birmingham.....	222,000	7	5	9	0.04	1	0.00	9.0
California:								
Long Beach.....		7	8	4		1		4.0
Los Angeles.....		7	35	45		13		3.5
Oakland.....	274,000	7	9	19	.07	3	.01	6.3
San Diego.....	120,000	7	7	5	.04	2	.02	2.5
San Francisco.....	585,000	7	10	8	.01	4	.01	2.0
Colorado:								
Denver.....	294,000	6	7	6	.02	3	.01	2.0
Connecticut:								
Bridgeport.....		7	7	1		0		
Hartford.....	172,000	7	6	11	.06	2	.01	5.5
New Haven.....	188,000	7	8	4	.02	1	.01	4.0
Waterbury.....		7	6	1		0		
Delaware:								
Wilmington.....	129,000	7	0	3	.02	3	.02	1.0
District of Columbia:								
Washington.....	552,000	7	19	36	.07	5	.01	7.2
Florida:								
Jacksonville.....	141,000	2	1	3	.02	1	.01	3.0
Miami.....	157,000	5	2	1	.01	0		
Tampa.....	113,000	5	1			2	.02	
Georgia:								
Atlanta.....	255,000	6	3	2	.01	2	.01	1.0
Illinois:								
Chicago.....	3,157,000	7	67	25	.01	8	.00	3.1
Indiana:								
Fort Wayne.....	105,000	6	4	5	.05	1	.01	5.0
Indianapolis.....	382,000	7	4	2	.01	2	.01	1.0
Iowa:								
Des Moines.....	152,000	5	4			1	.01	
Kansas:								
Kansas City.....	118,000	7	1	1	.01	1	.01	1.0
Kentucky:								
Louisville.....	329,000	6	2	3	.01	1	.00	3.0
Louisiana:								
New Orleans.....	429,000	7	6	1	.00	0		
Maryland:								
Baltimore.....	830,000	7	28	127	.15	11	.01	11.5
Massachusetts:								
Boston.....	799,000	7	50	121	.15	14	.02	8.6
Cambridge.....	126,000	6	5	11	.09	0		
Fall River.....	134,000	7	6	13	.10	1	.01	13.0
Lowell.....	110,000	7	6	6	.05	1	.01	6.0
Lynn.....	106,000	6	4	9	.08	3	.03	3.0
New Bedford.....	120,000	7	3	8	.07	1	.01	8.0
Somerville.....	103,000	6	6	8	.08	1	.01	8.0
Springfield.....	150,000	6	6	6	.04	2	.01	3.0
Worcester.....	198,000	5	4	5	.03	3	.02	1.7
Michigan:								
Detroit.....	1,379,000	5	34	23	.02	9	.01	2.6
Flint.....	149,000	7	4	2	.01	0		
Grand Rapids.....	164,000	7	4	1	.01	0		
Minnesota:								
Duluth.....	117,000	7	1	2	.02	1	.01	2.0
Minneapolis.....	456,000	7	10	33	.07	11	.02	3.0
St. Paul.....		7	8	20		3		6.7

¹Population, State census, 1925.

Reported Prevalence for the Year 1928—Continued

POLIOMYELITIS (INFANTILE PARALYSIS)—Continued

City	Estimated population, July 1, 1928	Estimated expectancy		1928				
		Number of years	Cases	Cases reported	Cases per 1,000 inhabitants	Deaths registered	Deaths per 1,000 inhabitants	Cases reported for each death registered
Missouri:								
Kansas City.....	391,000	7	3	12	0.03	1	0.00	12.0
St. Louis.....	848,000	7	9	4	.00	3	.00	1.3
New Jersey:								
Elizabeth.....		5	2	2		1		2.0
Jersey City.....	325,000	7	6	7	.02	2	.01	3.5
Newark.....	474,000	7	22	15	.03	4	.01	3.7
Paterson.....	145,000	7	6	1	.01	0		
Trenton.....	139,000	7	4	2	.01	0		
New York:								
Buffalo.....	556,000	4	11	27	.05	12	.02	2.2
New York.....	6,018,000	7	344	572	.10	149	.02	3.8
Rochester.....	328,000	5	8	15	.05	4	.01	3.7
Syracuse.....	199,000	7	15	² 25	² 13	1	.01	25.0
Utica.....	104,000	7	5	2	.02	0		
Yonkers.....	121,000	7	5	7	.06	0		
Ohio:								
Akron.....		7	3	13		4		3.2
Canton.....	117,000	7	2	1	.01	0		
Cincinnati.....	414,000	6	5	8	.02	2	.00	4.0
Cleveland.....	1,010,000	7	25	73	.07	14	.01	5.2
Columbus.....	299,000	5	4	23	.08	10	.03	2.3
Dayton.....	185,000	7	5	4	.02	0		
Toledo.....	313,000	7	5	8	.03	1	.00	8.0
Youngstown.....	174,000	7	3	16	.09	4	.02	4.0
Oklahoma:								
Tulsa.....	171,000			1	.01			
Oregon:								
Portland.....		5	10	24		12		2.0
Pennsylvania:								
Erie.....		7	4	3		2		1.5
Philadelphia.....	2,064,000	6	24	11	.01	1	.00	11.0
Pittsburgh.....	674,000	5	10	² 8	² 01	² 6	² 01	² 1.3
Rhode Island:								
Providence.....	286,000	7	10	² 6	² 02	1	.00	6.0
Tennessee:								
Knoxville.....	105,000	6	3			2	.02	
Memphis.....	190,000	7	3	4	.02	0		
Nashville.....	140,000	6	6	4	.03	1	.01	4.0
Texas:								
Dallas.....	218,000	7	3	8	.04	1	.00	8.0
El Paso.....	118,000	5	1	8	.07	5	.04	1.6
Fort Worth.....	171,000	5	1	2	.01	1	.01	2.0
Houston.....		5	1	18		1		18.0
San Antonio.....	218,000	5	2	3	.01	2	.01	1.5
Utah:								
Salt Lake City.....	138,000	5	2			1	.01	
Virginia:								
Richmond.....	194,000	7	5	5	.03	2	.01	2.5
Washington:								
Seattle.....	383,000	6	16	133	.35	9	.02	14.8
Spokane.....	109,000	7	5	46	.42	15	.14	3.1
Tacoma.....	111,000	5	3	30	.27	7	.06	4.3
Wisconsin:								
Milwaukee.....	544,000	5	8	4	.01	1	.00	4.0
Total:								
66 cities.....	30,130,000		916	1,613	.054	357	.012	4.5
70 cities.....	30,638,000					363	.012	
77 cities.....				1,745				
80 cities.....						400		

² Includes nonresidents.

Reported Prevalence for the Year 1928—Continued

RABIES IN ANIMALS

City	Cases reported, 1928	City	Cases reported, 1928
Alabama:		Missouri:	
Birmingham.....	112	Kansas City.....	9
California:		St. Louis.....	74
Long Beach.....	5	New Jersey:	
Los Angeles.....	331	Elizabeth.....	10
San Diego.....	65	Newark.....	9
San Francisco.....	4	Paterson.....	5
Florida:		New York:	
Miami.....	3	New York.....	258
Tampa.....	6	Yonkers.....	24
Illinois:		Ohio:	
Chicago.....	921	Cleveland.....	112
Iowa:		Columbus.....	13
Des Moines.....	15	Dayton.....	28
Kentucky:		Toledo.....	180
Louisville.....	61	Rhode Island:	
Maryland:		Providence.....	35
Baltimore.....	19	Tennessee:	
Massachusetts:		Memphis.....	135
Boston.....	102	Texas:	
Michigan:		Dallas.....	5
Detroit.....	451	Houston.....	454
Flint.....	11	San Antonio.....	12
Grand Rapids.....	3	Virginia:	
Minnesota:		Richmond.....	7
Duluth.....	2		

RABIES IN MAN

City	Deaths registered, 1928	City	Deaths registered, 1928
California:		Ohio:	
Los Angeles.....	2	Akron.....	1
Florida:		Pennsylvania:	
Jacksonville.....	1	Pittsburgh.....	17
Illinois:		Tennessee:	
Chicago.....	7	Knoxville.....	1
Indiana:		Memphis.....	3
Indianapolis.....	2	Nashville.....	1
Massachusetts:		Texas:	
Boston.....	3	Dallas.....	1
Michigan:		El Paso.....	2
Detroit.....	1	Houston.....	1
Nebraska:		San Antonio.....	3
Omaha.....	3	Virginia:	
New Jersey:		Richmond.....	1
Newark.....	1		
New York:			
New York.....	14		

¹ Includes 2 nonresidents.² Includes nonresidents.³ Nonresident.

ROCKY MOUNTAIN SPOTTED (OR TICK) FEVER

City	Cases reported, 1928	Deaths registered, 1928
Utah:		
Salt Lake City.....	4	2

Reported Prevalence for the Year 1928—Continued

SCARLET FEVER

City	Estimated population, July 1, 1928	Estimated expectancy		1928				
		Number of years	Cases	Cases re-reported	Cases per 1,000 inhabitants	Deaths registered	Deaths per 1,000 inhabitants	Cases reported for each death registered
Alabama:								
Birmingham.....	222,000	7	168	140	0.63	1	0.00	140.0
California:								
Long Beach.....		7	120	128		0		
Los Angeles.....		7	1,347	917		5		183.4
Oakland.....	274,000	7	305	536	1.96	5	.02	107.2
San Diego.....	120,000	7	250	378	3.15	1	.01	378.0
San Francisco.....	585,000	7	723	1,005	1.72	5	.01	201.0
Colorado:								
Denver.....	294,000	7	549	375	1.28	2	.01	187.5
Connecticut:								
Bridgeport.....		7	438	121		2		60.5
Hartford.....	172,000	7	238	194	1.13	0		
New Haven.....	188,000	7	327	82	.44	0		
Waterbury.....		7	222	66		0		
Delaware:								
Wilmington.....	129,000	7	371	65	.50	2	.02	32.5
District of Columbia:								
Washington.....	552,000	7	944	1,288	2.33	7	.01	184.0
Florida:								
Jacksonville.....	141,000	2	16	59	.42	0		
Miami.....	157,000	6	20	57	.36	0		
Tampa.....	113,000	5	13	62	.55	1	.01	62.0
Georgia:								
Atlanta.....	255,000	7	255	448	1.76	8	.03	56.0
Illinois:								
Chicago.....	3,157,000	7	4,948	4,335	1.37	78	.02	55.6
Indiana:								
Fort Wayne.....	105,000	7	195	158	1.50	0		
Indianapolis.....	382,000	7	348	624	1.63	5	.01	124.8
Iowa:								
Des Moines.....	152,000	6	370	545	3.59	5	.03	109.0
Kansas:								
Kansas City.....	118,000	7	174	120	1.02	2	.02	60.0
Kentucky:								
Louisville.....	329,000	6	287	918	2.79	2	.01	459.0
Louisiana:								
New Orleans.....	429,000	7	247	295	.69	8	.02	36.9
Maryland:								
Baltimore.....	830,000	7	1,122	1,037	1.25	4	.00	259.2
Massachusetts:								
Boston.....	799,000	7	3,064	2,621	3.28	31	.04	84.5
Cambridge.....	126,000	7	330	279	2.21	0		
Fall River.....	134,000	7	165	308	2.30	1	.01	308.0
Lowell.....	¹ 110,000	7	162	75	.68	1	.01	75.0
Lynn.....	106,000	7	230	311	2.93	3	.03	103.7
New Bedford.....	¹ 120,000	7	217	92	.77	1	.01	92.0
Somerville.....	103,000	7	319	225	2.18	0		
Springfield.....	150,000	7	330	494	3.29	2	.01	247.0
Worcester.....	198,000	7	440	302	1.53	1	.01	302.0
Michigan:								
Detroit.....	1,379,000	7	3,733	4,385	3.18	65	.05	67.5
Flint.....	149,000	7	434	562	3.77	9	.06	62.4
Grand Rapids.....	164,000	7	487	207	1.26	1	.01	207.0
Minnesota:								
Duluth.....	117,000	7	409	346	2.96	0		
Minneapolis.....	456,000	7	2,211	942	2.07	14	.03	67.3
St. Paul.....		7	1,432	538		2		269.0

¹ Population, State census, 1925.

Reported Prevalence for the Year 1928—Continued

SCARLET FEVER—Continued

City	Estimated population, July 1, 1928	Estimated expectancy		1928				
		Number of years	Cases	Cases re-reported	Cases per 1,000 inhabitants	Deaths registered	Deaths per 1,000 inhabitants	Cases reported for each death registered
Missouri:								
Kansas City.....	391,000	7	759	947	2.42	15	0.04	63.1
St. Louis.....	848,000	7	1,735	1,071	1.26	20	.02	53.5
Nebraska:								
Omaha.....	223,000	7	195	255	1.14	1	.00	255.0
New Jersey:								
Camden.....	135,000	7	179	177	1.31	1	.01	177.0
Elizabeth.....		7	255	158		4		39.5
Jersey City.....	325,000	7	533	727	2.24	4	.01	181.7
Newark.....	474,000	7	1,128	973	2.05	6	.01	162.2
Paterson.....	145,000	7	226	148	1.02	3	.02	49.3
Trenton.....	139,000	7	246	100	.72	1	.01	100.0
New York:								
Albany.....	120,000	7	261	549	4.57	3	.02	183.0
Buffalo.....	556,000	7	1,072	1,300	2.34	31	.06	41.9
New York.....	6,018,000	7	8,840	10,586	1.76	69	.01	153.4
Rochester.....	328,000	7	609	230	.70	3	.01	76.7
Syracuse.....	199,000	7	564	427	2.15	0		
Utica.....	104,000	6	203	144	1.38	3	.03	48.0
Yonkers.....	121,000	7	344	474	3.92	3	.02	158.0
Ohio:								
Akron.....		7	510	228		1		228.0
Canton.....	117,000	7	194	139	1.19	1	.01	139.0
Cincinnati.....	414,000	7	644	1,061	2.56	10	.02	106.1
Cleveland.....	1,010,000	6	2,303	995	.99	16	.02	62.2
Columbus.....	299,000	7	508	422	1.41	7	.02	60.3
Dayton.....	185,000	7	277	134	.72	2	.01	67.0
Toledo.....	313,000	7	531	340	1.09	3	.01	113.3
Youngstown.....	174,000	7	364	153	.88	3	.02	51.0
Oklahoma:								
Oklahoma City.....		7	121	229		2		114.5
Tulsa.....	171,000			292	1.71			
Oregon:								
Portland.....		7	265	248		2		124.0
Pennsylvania:								
Erie.....		7	355	646		6		107.7
Philadelphia.....	2,064,000	7	3,765	2,869	1.39	22	.01	130.4
Pittsburgh.....	674,000	7	1,656	1,197	1.78	21	.03	57.0
Reading.....	115,000	7	161	565	4.91	0		
Rhode Island:								
Providence.....	286,000	7	353	912	3.19	9	.03	101.3
Tennessee:								
Knoxville.....	105,000	7	105	47	.45	2	.02	23.5
Memphis.....	190,000	7	235	271	1.43	1	.01	271.0
Nashville.....	140,000	7	112	68	.49	1	.01	68.0
Texas:								
Dallas.....	218,000	7	167	472	2.17	4	.02	118.0
El Paso.....	118,000	6	114	435	3.69	4	.03	108.7
Fort Worth.....	171,000	7	74	337	1.97	4	.02	84.2
Houston.....		7	81	103		1		103.0
San Antonio.....	218,000	7	42	94	.43	1	.00	94.0
Utah:								
Salt Lake City.....	138,000	7	130	111	.80	1	.01	111.0
Virginia:								
Norfolk.....	184,000	7	82	287	1.56	1	.01	287.0
Richmond.....	194,000	7	238	195	1.01	1	.01	195.0
Washington:								
Seattle.....	383,000	7	445	205	.54	0		
Spokane.....	109,000	7	317	403	3.70	4	.04	100.7
Tacoma.....	111,000	7	126	105	.95	1	.01	105.0
Wisconsin:								
Milwaukee.....	544,000	7	1,151	1,995	3.67	14	.03	142.5
Total:								
75 cities.....	31,415,000		55,289	55,790	1.776	561	.018	99.4
86 cities.....			60,435	59,172		586		101.0
87 cities.....				59,464				

* Includes nonresidents.

Reported Prevalence for the Year 1928—Continued

SEPTIC SORE THROAT

City	Estimated population, July 1, 1928	Cases reported, 1928	Cases per 1,000 inhabitants	Deaths registered, 1928	Deaths per 1,000 inhabitants	Cases reported for each death registered
California:						
Long Beach.....		1		0		
Los Angeles.....		8		6		1.3
Oakland.....	274,000	1	0.00	1	0.00	1.0
San Diego.....	120,000			8	.07	
San Francisco.....	585,000			18	.03	
Colorado:						
Denver.....	294,000			7	.02	
Connecticut:						
Bridgeport.....		11		10		1.1
Hartford.....	172,000			1	.01	
New Haven.....	188,000	5	.03	0		
Waterbury.....		1		0		
District of Columbia:						
Washington.....	552,000			13	.02	
Florida:						
Jacksonville.....	141,000			5	.04	
Miami.....	157,000	1	.01	1	.01	1.0
Tampa.....	113,000			7	.06	
Georgia:						
Atlanta.....	255,000	110	.43	12	.05	9.2
Illinois:						
Chicago.....	3,157,000	134	.04	38	.01	3.5
Kentucky:						
Louisville.....	329,000	5	.02	0		
Louisiana:						
New Orleans.....	429,000	2	.00	0		
Maryland:						
Baltimore.....	830,000	56	.07	8	.01	7.0
Massachusetts:						
Boston.....	799,000	90	.11	13	.02	6.9
Cambridge.....	126,000	8	.06	1	.01	8.0
Fall River.....	134,000	6	.04	1	.01	6.0
Lowell.....	110,000	4	.04	2	.02	2.0
Lynn.....	106,000	5	.05	0		
New Bedford.....	120,000			2	.02	
Somerville.....	103,000	4	.04	0		
Springfield.....	150,000	4	.03	1	.01	4.0
Worcester.....	198,000	6	.03	0		
Michigan:						
Detroit.....	1,379,000	23	.02			
Flint.....	149,000			5	.03	
Missouri:						
Kansas City.....	391,000			1	.00	
New Jersey:						
Elizabeth.....		1		1		1.0
Newark.....	474,000			3	.01	
New York:						
Albany.....	120,000	3	.02	1	.01	3.0
Buffalo.....	556,000	17	.03	0		
New York.....	6,018,000			103	.02	
Rochester.....	328,000			2	.01	
Ohio:						
Akron.....		1		0		
Columbus.....	299,000	7	.02	7	.02	1.0
Pennsylvania:						
Pittsburgh.....	674,000			32	.05	
Tennessee:						
Memphis.....	190,000			10	.05	
Texas:						
Dallas.....	218,000			11	.05	
El Paso.....	118,000			5	.04	
Houston.....				3		
San Antonio.....	218,000			5	.02	
Virginia:						
Richmond.....	194,000			10	.05	
Total:						
38 cities.....	19,389,000			334	.017	
45 cities.....				354		

¹ Population, State census, 1925.² Includes nonresidents.

Reported Prevalence for the Year 1928—Continued

SMALLPOX

City	Estimated population, July 1, 1928	Estimated expectancy		1928				
		Number of years	Cases	Cases reported	Cases per 1,000 inhabitants	Deaths registered	Deaths per 1,000 inhabitants	Cases reported for each death registered
Alabama:								
Birmingham.....	222,000	7	176	38	0.17	0	-----	-----
California:								
Long Beach.....		5	26	6	-----	0	-----	-----
Los Angeles.....		7	766	54	-----	0	-----	-----
Oakland.....	274,000	7	261	322	1.18	0	-----	-----
San Diego.....	120,000	7	20	10	.08	0	-----	-----
San Francisco.....	585,000	7	77	33	.06	0	-----	-----
Colorado:								
Denver.....	294,000	5	6	19	.06	0	-----	-----
Connecticut:								
Bridgeport.....		7	1	0	-----	0	-----	-----
Hartford.....	172,000	7	0	1	.01	0	-----	-----
New Haven.....	188,000	7	0	1	.01	0	-----	-----
Waterbury.....		7	0	0	-----	0	-----	-----
Delaware:								
Wilmington.....	129,000	7	0	0	-----	0	-----	-----
District of Columbia:								
Washington.....	552,000	7	66	24	.04	0	-----	-----
Florida:								
Jacksonville.....	141,000	2	25	36	.26	0	-----	-----
Miami.....	157,000	6	87	0	-----	0	-----	-----
Tampa.....	113,000	5	6	3	.03	0	-----	-----
Georgia:								
Atlanta.....	255,000	6	287	40	.16	0	-----	-----
Illinois:								
Chicago.....	3,157,000	7	90	147	.05	0	-----	-----
Indiana:								
Fort Wayne.....	105,000	7	89	9	.09	0	-----	-----
Indianapolis.....	382,000	7	545	144	.38	0	-----	-----
Iowa:								
Des Moines.....	152,000	6	111	312	2.05	0	-----	-----
Kansas:								
Kansas City.....	118,000	7	14	109	.92	0	-----	-----
Kentucky:								
Louisville.....	329,000	6	38	15	.05	1	0.00	15.0
Louisiana:								
New Orleans.....	429,000	7	12	11	.03	1	.00	11.0
Maryland:								
Baltimore.....	830,000	7	7	4	.00	0	-----	-----
Massachusetts:								
Boston.....	799,000	7	0	7	.01	0	-----	-----
Cambridge.....	126,000	7	0	0	-----	0	-----	-----
Fall River.....	134,000	7	0	0	-----	0	-----	-----
Lowell.....	¹ 110,000	7	0	0	-----	0	-----	-----
Lynn.....	106,000	7	0	0	-----	0	-----	-----
New Bedford.....	¹ 120,000	7	0	0	-----	0	-----	-----
Somerville.....	103,000	7	0	0	-----	0	-----	-----
Springfield.....	150,000	7	0	1	.01	0	-----	-----
Worcester.....	198,000	7	0	0	-----	0	-----	-----
Michigan:								
Detroit.....	1,379,000	5	66	50	.04	0	-----	-----
Flint.....	149,000	7	56	152	1.02	0	-----	-----
Grand Rapids.....	164,000	7	24	8	.05	0	-----	-----
Minnesota:								
Duluth.....	117,000	7	189	1	.01	0	-----	-----
Minneapolis.....	456,000	5	191	18	.94	0	-----	-----
St. Paul.....		7	419	4	-----	0	-----	-----

¹ Population, State census, 1925.

Reported Prevalence for the Year 1928—Continued

SMALLPOX—Continued

City	Estimated population, July 1, 1928	Estimated expectancy		1928				
		Number of years	Cases	Cases reported	Cases per 1,000 inhabitants	Deaths registered	Deaths per 1,000 inhabitants	Cases reported for each death registered
Missouri:								
Kansas City.....	391,000	7	33	74	0.19	1	0.00	74.0
St. Louis.....	848,000	7	118	65	.08	0	-----	-----
Nebraska:								
Omaha.....	223,000	7	178	101	.45	0	-----	-----
New Jersey:								
Camden.....	135,000	7	0	0	-----	0	-----	-----
Elizabeth.....	-----	7	0	0	-----	0	-----	-----
Jersey City.....	325,000	7	1	0	-----	0	-----	-----
Newark.....	474,000	7	2	1	.00	0	-----	-----
Paterson.....	145,000	7	0	0	-----	0	-----	-----
Trenton.....	139,000	7	4	3	.02	0	-----	-----
New York:								
Albany.....	120,000	7	0	0	-----	0	-----	-----
Buffalo.....	556,000	7	8	2	.00	0	-----	-----
New York.....	6,018,000	7	12	2	.00	0	-----	-----
Rochester.....	328,000	7	2	0	-----	0	-----	-----
Syracuse.....	199,000	7	3	16	1.03	0	-----	-----
Utica.....	104,000	7	0	2	.02	0	-----	-----
Yonkers.....	121,000	7	0	0	-----	0	-----	-----
Ohio:								
Akron.....	-----	7	18	9	-----	0	-----	-----
Canton.....	117,000	7	6	3	.03	0	-----	-----
Cincinnati.....	414,000	7	51	46	.11	0	-----	-----
Cleveland.....	1,010,000	7	28	4	.00	0	-----	-----
Columbus.....	299,000	7	81	7	.02	0	-----	-----
Dayton.....	185,000	7	67	44	.24	0	-----	-----
Tledo.....	313,000	7	129	3	.01	0	-----	-----
Youngstown.....	174,000	6	54	1	.01	0	-----	-----
Oklahoma:								
Oklahoma City.....	-----	7	76	378	-----	0	-----	-----
Tulsa.....	171,000	-----	-----	90	.53	-----	-----	-----
Oregon:								
Portland.....	-----	6	370	1,051	-----	3	-----	350.3
Pennsylvania:								
Erie.....	-----	7	0	0	-----	0	-----	-----
Philadelphia.....	2,064,000	7	27	0	-----	0	-----	-----
Pittsburgh.....	674,000	7	4	1	.00	0	-----	-----
Reading.....	115,000	7	0	0	-----	0	-----	-----
Rhode Island:								
Providence.....	286,000	7	0	0	-----	0	-----	-----
Tennessee:								
Knoxville.....	105,000	4	9	27	.26	0	-----	-----
Memphis.....	190,000	7	147	22	.12	0	-----	-----
Nashville.....	140,000	7	46	49	.35	0	-----	-----
Texas:								
Dallas.....	218,000	7	48	81	.37	0	-----	-----
El Paso.....	118,000	6	7	1	.01	0	-----	-----
Fort Worth.....	171,000	7	50	172	1.01	1	.01	172.0
Houston.....	-----	7	43	41	-----	1	-----	41.0
San Antonio.....	218,000	7	9	11	.05	0	-----	-----
Utah:								
Salt Lake City.....	138,000	7	52	197	1.43	0	-----	-----
Virginia:								
Norfolk.....	184,000	7	1	11	.06	0	-----	-----
Richmond.....	194,000	7	10	1	.01	0	-----	-----
Washington:								
Seattle.....	383,000	6	180	44	.11	0	-----	-----
Spokane.....	109,000	6	289	332	3.05	0	-----	-----
Tacoma.....	111,000	7	270	54	.49	0	-----	-----
Wisconsin:								
Milwaukee.....	544,000	6	101	19	.03	0	-----	-----
Total:								
75 cities.....	31,415,000	-----	4,470	2,901	.092	4	.0001	725.2
86 cities.....	-----	-----	6,189	4,444	-----	8	-----	555.5
87 cities.....	-----	-----	-----	4,534	-----	-----	-----	-----

* Includes nonresidents.

Reported Prevalence for the Year 1928—Continued

TUBERCULOSIS (ALL FORMS)

City	Estimated population, July 1, 1928	Cases reported, 1928	Cases per 1,000 inhabitants	Deaths registered, 1928	Deaths per 1,000 inhabitants	Cases reported for each death registered
Alabama:						
Birmingham.....	222,000	622	2.80	281	1.27	2.2
California:						
Long Beach.....				35		
Los Angeles.....		3,560		1,377		2.6
Oakland.....	274,000			157	.57	
San Diego.....	120,000	240	2.00	176	1.47	1.4
San Francisco.....	585,000	1,143	1.95	634	1.08	1.8
Colorado:						
Denver.....	294,000			415	1.41	
Connecticut:						
Bridgeport.....		172		103		1.7
Hartford.....	172,000	257	1.49	48	.28	5.4
New Haven.....	188,000	676	3.60	115	.61	5.9
Waterbury.....		99		45		2.2
Delaware:						
Wilmington.....	129,000			57	.44	
District of Columbia:						
Washington.....	552,000	1,142	2.07	577	1.05	2.0
Florida:						
Jacksonville.....	141,000	186	1.32	171	1.21	1.1
Miami.....	157,000	151	.96	71	.45	2.1
Tampa.....	113,000			96	.85	
Georgia:						
Atlanta.....	255,000	506	1.98	271	1.06	1.9
Illinois:						
Chicago.....	3,157,000	7,085	2.24	2,680	.85	2.6
Indiana:						
Fort Wayne.....	105,000			60	.57	
Indianapolis.....	382,000			358	.94	
Iowa:						
Des Moines.....	152,000			96	.63	
Kansas:						
Kansas City.....	118,000	178	1.51	99	.84	1.8
Kentucky:						
Louisville.....	329,000	770	2.34	131	.40	5.9
Louisiana:						
New Orleans.....	429,000	991	2.31	757	1.76	1.3
Maryland:						
Baltimore.....	830,000	1,373	1.65	826	1.00	1.7
Massachusetts:						
Boston.....	799,000	1,867	2.34	664	.83	2.8
Cambridge.....	126,000	199	1.58	110	.87	1.8
Fall River.....	134,000	191	1.43	121	.90	1.6
Lowell.....	110,000	124	1.13	72	.65	1.7
Lynn.....	106,000	135	1.27	29	.27	4.7
New Bedford.....	120,000	251	2.09	124	1.03	2.0
Somerville.....	103,000	105	1.02	39	.38	2.7
Springfield.....	150,000	150	1.00	68	.45	2.2
Worcester.....	198,000	176	.89	144	.73	1.2
Michigan:						
Detroit.....	1,379,000	3,005	2.18	1,308	.95	2.3
Flint.....	149,000	119	.80	64	.43	1.9
Grand Rapids.....	164,000	141	.86	47	.29	3.0
Minnesota:						
Duluth.....	117,000	155	1.32	67	.57	2.3
Minneapolis.....	456,000	962	2.11	165	.36	5.8
St. Paul.....		291		195		1.5
Missouri:						
Kansas City.....	391,000			387	.99	
St. Louis.....	848,000			680	.80	
Nebraska:						
Omaha.....	223,000			104	.47	
New Jersey:						
Camden.....	135,000	190	1.41	58	.43	3.3
Elizabeth.....		134		56		2.4
Jersey City.....	325,000	495	1.52	239	.74	2.1
Newark.....	474,000	932	1.97	412	.87	2.3
Paterson.....	145,000	162	1.12	106	.73	1.5
Trenton.....	139,000	237	1.71	148	1.06	1.6

¹ Population, State census, 1925.

Reported Prevalence for the Year 1928—Continued

TUBERCULOSIS (ALL FORMS)—Continued

City	Estimated population, July 1, 1928	Cases reported, 1928	Cases per 1,000 inhabitants	Deaths registered, 1928	Deaths per 1,000 inhabitants	Cases reported for each death registered
New York:						
Albany.....	120,000	242	2.02	115	0.96	2.1
Buffalo.....	556,000	895	1.61	494	.89	1.8
New York.....	6,018,000	11,689	1.94	5,326	.89	2.2
Rochester.....	328,000	487	1.48	120	.37	4.1
Syracuse.....	199,000	2 390	1.96	2 96	1.48	1 4.1
Utica.....	104,000	119	1.14	44	.42	2.7
Yonkers.....	121,000	188	1.55	90	.74	2.1
Ohio:						
Akron.....		613		103		6.0
Canton.....	117,000	132	1.13	37	.32	3.6
Cincinnati.....	414,000	1,168	2.82	527	1.27	2.2
Cleveland.....	1,010,000	1,883	1.86	797	.79	2.4
Columbus.....	299,000	519	1.74	260	.87	2.0
Dayton.....	185,000			134	.72	
Toledo.....	313,000	526	1.68	271	.87	1.9
Youngstown.....	174,000	655	3.76	93	.53	7.0
Oklahoma:						
Oklahoma City.....				79		
Oregon:						
Portland.....		333		144		2.3
Pennsylvania:						
Erie.....		260		50		5.2
Philadelphia.....	2,064,000	2,938	1.42	1,742	.84	1.7
Pittsburgh.....	674,000			2 504	1.75	
Reading.....	115,000			38	.33	
Rhode Island:						
Providence.....	286,000			2 159	1.56	
Tennessee:						
Knoxville.....	105,000			102	.97	
Memphis.....	190,000	731	3.85	337	1.77	2.2
Nashville.....	140,000	476	3.40	214	1.53	2.2
Texas:						
Dallas.....	218,000			115	.53	
El Paso.....	118,000			361	3.06	
Fort Worth.....	171,000			77	.45	
Houston.....				236		
San Antonio.....	218,000			398	1.83	
Utah:						
Salt Lake City.....	138,000			88	.64	
Virginia:						
Norfolk.....	184,000			98	.53	
Richmond.....	194,000	419	2.16	181	.93	2.3
Washington:						
Seattle.....	383,000	695	1.81	203	.53	3.4
Spokane.....	109,000	97	.89	38	.35	2.6
Tacoma.....	111,000			39	.35	
Wisconsin:						
Milwaukee.....	544,000			346	.64	
Total—						
52 cities.....	25,437,000	49,165	1.933	21,807	.857	2.3
75 cities.....	31,415,000			26,676	.849	
60 cities.....		54,627				
86 cities.....				29,099		

1 Includes nonresidents.

TUBERCULOSIS (RESPIRATORY SYSTEM)

City	Estimated population, July 1, 1928	Cases reported, 1928	Cases per 1,000 inhabitants	Deaths registered, 1928	Deaths per 1,000 inhabitants	Cases reported for each death registered
Alabama:						
Birmingham.....	222,000	579	2.61	238	1.07	2.4
California:						
Long Beach.....		111		30		3.7
Los Angeles.....				1,204		
Oakland.....	274,000	313	1.14	122	.45	2.6
San Diego.....	120,000			164	1.37	
San Francisco.....	585,000	1,049	1.79	538	.92	1.9

Reported Prevalence for the Year 1928—Continued

TUBERCULOSIS (RESPIRATORY SYSTEM)—Continued

City	Estimated population, July 1, 1928	Cases reported, 1928	Cases per 1,000 inhabitants	Deaths registered, 1928	Deaths per 1,000 inhabitants	Cases reported for each death registered
Colorado:						
Denver.....	294,000	-----	-----	378	1.29	-----
Connecticut:						
Bridgeport.....	-----	-----	-----	88	-----	-----
Hartford.....	172,000	237	1.38	41	.24	5.8
New Haven.....	188,000	432	2.30	102	.54	4.2
Waterbury.....	-----	92	-----	37	-----	2.5
Delaware:						
Wilmington.....	129,000	-----	-----	49	.38	-----
District of Columbia:						
Washington.....	552,000	1,087	1.97	507	.92	2.1
Florida:						
Jacksonville.....	141,000	-----	-----	154	1.09	-----
Miami.....	157,000	146	.93	66	.42	2.2
Tampa.....	113,000	-----	-----	86	.76	-----
Georgia:						
Atlanta.....	255,000	-----	-----	220	.86	-----
Illinois:						
Chicago.....	3,157,000	-----	-----	2,285	.72	-----
Indiana:						
Fort Wayne.....	105,000	-----	-----	57	.54	-----
Indianapolis.....	382,000	-----	-----	293	.77	-----
Iowa:						
Des Moines.....	152,000	-----	-----	89	.59	-----
Louisiana:						
New Orleans.....	429,000	-----	-----	660	1.54	-----
Maryland:						
Baltimore.....	830,000	1,235	1.49	717	.86	1.7
Massachusetts:						
Boston.....	799,000	1,455	1.82	581	.73	2.5
Cambridge.....	126,000	¹ 171	1.36	107	.85	1.6
Fall River.....	134,000	145	1.08	106	.79	1.4
Lowell.....	² 110,000	97	.88	63	.57	1.5
Lynn.....	106,000	107	1.01	22	.21	4.9
New Bedford.....	³ 120,000	188	1.57	98	.82	1.9
Somerville.....	103,000	86	.83	30	.29	2.9
Springfield.....	150,000	113	.75	50	.33	2.3
Worcester.....	198,000	142	.72	128	.65	1.1
Michigan:						
Detroit.....	1,379,000	2,745	1.99	1,095	.79	2.5
Flint.....	149,000	-----	-----	51	.34	-----
Grand Rapids.....	164,000	137	.84	40	.24	3.4
Minnesota:						
Duluth.....	117,000	91	.78	60	.51	1.5
Minneapolis.....	456,000	776	1.70	134	.29	5.8
St. Paul.....	-----	271	-----	150	-----	1.8
Missouri:						
Kansas City.....	391,000	-----	-----	340	.87	-----
St. Louis.....	848,000	1,363	1.61	582	.69	2.3
New Jersey:						
Camden.....	135,000	177	1.31	45	.33	3.9
Elizabeth.....	-----	-----	-----	50	-----	-----
Newark.....	474,000	860	1.81	366	.77	2.3
Paterson.....	145,000	-----	-----	91	.63	-----
Trenton.....	139,000	215	1.55	132	.95	1.6
New York:						
Albany.....	120,000	-----	-----	100	.83	-----
Buffalo.....	556,000	780	1.40	404	.73	1.9
New York.....	6,018,000	11,614	1.93	4,636	.77	2.5
Rochester.....	328,000	-----	-----	102	.31	-----
Syracuse.....	199,000	³ 268	³ 1.35	³ 71	³ .36	³ 3.8
Yonkers.....	121,000	177	1.46	82	.68	2.2
Ohio:						
Akron.....	-----	-----	-----	80	-----	-----
Canton.....	117,000	127	1.09	34	.29	3.7
Cincinnati.....	414,000	977	2.36	442	1.07	2.2
Cleveland.....	1,010,000	1,688	1.67	689	.68	2.4
Columbus.....	299,000	-----	-----	216	.72	-----
Dayton.....	185,000	118	.64	113	.61	1.0
Toledo.....	313,000	-----	-----	229	.73	-----
Youngstown.....	174,000	368	2.11	78	.45	4.7
Oregon:						
Portland.....	-----	-----	-----	103	-----	-----

¹ In addition, 43 cases of hilum tuberculosis were also reported.² Population, State census, 1925.³ Includes nonresidents.

Reported Prevalence for the Year 1928—Continued

TUBERCULOSIS (RESPIRATORY SYSTEM)—Continued

City	Estimated population, July 1, 1928	Cases reported, 1928	Cases per 1,000 inhabitants	Deaths registered, 1928	Deaths per 1,000 inhabitants	Cases reported for each death registered
Pennsylvania:						
Erie.....				43		
Philadelphia.....	2,064,000			1,507	0.73	
Pittsburgh.....	674,000	3 674	3 1.00	3 405	3 1.60	3 1.7
Reading.....	115,000	97	.84	37	.32	2.6
Rhode Island:						
Providence.....	286,000			3 115	3 1.40	
Tennessee:						
Knoxville.....	105,000	218	2.08	82	.78	2.7
Memphis.....	190,000	690	3.63	284	1.49	2.4
Nashville.....	140,000	434	3.10	170	1.21	2.6
Texas:						
Dallas.....	218,000			99	.45	
El Paso.....	118,000			331	2.81	
Fort Worth.....	171,000			72	.42	
Houston.....		527		218		2.4
San Antonio.....	218,000			358	1.64	
Utah:						
Salt Lake City.....	138,000	76	.55	75	.54	1.0
Virginia:						
Richmond.....	194,000			154	.79	
Washington:						
Seattle.....	383,000	528	1.38	160	.42	3.3
Spokane.....	109,000	87	.80	28	.26	3.1
Tacoma.....	111,000	151	1.36	37	.33	4.1
Wisconsin:						
Milwaukee.....	544,000	800	1.47	292	.54	2.7
Total:						
44 cities.....	19,841,000	33,818	1.704	14,089	.710	2.4
69 cities.....	30,132,000			22,289	.740	
48 cities.....		34,819				
79 cities.....				24,292		

³ Includes nonresidents.

TULARAEMIA

City	Cases reported, 1928	Deaths registered, 1928	City	Cases reported, 1928	Deaths registered, 1928
Alabama:			Missouri:		
Birmingham.....	3	1	St. Louis.....	3	0
California:			New York:		
Los Angeles.....	1	0	Buffalo.....	1	0
Florida:			New York.....	1	0
Miami.....	1	1	Ohio:		
Illinois:			Cincinnati.....	1	0
Chicago.....	3	0	Dayton.....	8	0
Kentucky:			Toledo.....	1	0
Louisville.....	13	0	Youngstown.....	2	0
Louisiana:			Tennessee:		
New Orleans.....	4	1	Nashville.....	3	0
Maryland:			Texas:		
Baltimore.....	5	1	Dallas.....	2	0
Minnesota:					
Duluth.....	1	0			

Reported Prevalence for the Year 1928—Continued

TYPHOID FEVER

City	Estimated population, July 1, 1928	Estimated expectancy		1928				
		Number of years	Cases	Cases reported	Cases per 1,000 inhabitants	Deaths registered	Deaths per 1,000 inhabitants	Cases reported for each death registered
Alabama:								
Birmingham	222,000	7	158	112	0.50	16	0.07	7.0
California:								
Long Beach		7	17	11		3		3.7
Los Angeles		7	94	67		21		3.2
Oakland	274,000	7	30	22	.08	3	.01	7.3
San Diego	120,000	7	8	13	.11	2	.02	6.5
San Francisco	585,000	7	69	76	.13	20	.03	3.8
Colorado:								
Denver	294,000	7	56	17	.06	8	.03	2.1
Connecticut:								
Bridgeport		7	16	6		1		6.0
Hartford	172,000	7	17	12	.07	2	.01	6.0
New Haven	188,000	7	51	18	.10	0		
Waterbury		7	9	4		2		2.0
Delaware:								
Wilmington	129,000	7	33	7	.05	7	.05	1.0
District of Columbia:								
Washington	552,000	7	126	46	.08	15	.03	3.1
Florida:								
Jacksonville	141,000	2	53	34	.24	3	.02	11.3
Miami	157,000	6	38	22	.14	3	.02	7.3
Tampa	113,000	6	46	40	.35	9	.08	4.4
Georgia:								
Atlanta	255,000	7	94	93	.36	19	.07	4.9
Illinois:								
Chicago	3,157,000	7	232	127	.04	16	.01	7.9
Indiana:								
Fort Wayne	105,000	7	33	44	.42	6	.06	7.3
Indianapolis	382,000	7	42	66	.17	15	.04	4.4
Iowa:								
Des Moines	152,000					2	.01	
Kansas:								
Kansas City	118,000	7	29	19	.16	2	.02	9.5
Kentucky:								
Louisville	329,000	6	118	67	.20	8	.02	8.4
Louisiana:								
New Orleans	429,000	7	170	153	.36	32	.07	4.8
Maryland:								
Baltimore	830,000	7	174	114	.14	32	.04	3.6
Massachusetts:								
Boston	799,000	7	121	80	.10	5	.01	16.0
Cambridge	126,000	7	16	3	.02	2	.02	1.5
Fall River	134,000	7	29	29	.22	6	.04	4.8
Lowell	¹ 110,000	7	15	6	.05	0		
Lynn	106,000	7	17	6	.06	0		
New Bedford	¹ 120,000	7	16	9	.07	2	.02	4.5
Somerville	103,000	7	10	7	.07	2	.02	3.5
Springfield	150,000	7	11	13	.09	0		
Worcester	198,000	7	18	6	.03	1	.01	6.0
Michigan:								
Detroit	1,379,000	7	134	69	.05	14	.01	4.9
Flint	149,000	7	23	13	.09	2	.01	6.5
Grand Rapids	164,000	7	24	² 9	.05	1	.01	9.0
Minnesota:								
Duluth	117,000	7	14	14	.12	0		
Minneapolis	456,000	7	52	25	.05	1	.00	25.0
St. Paul		7	35	15		4		3.7
Missouri:								
Kansas City	391,000	7	57	37	.09	9	.02	4.1
St. Louis	848,000	7	178	123	.15	19	.02	6.5
Nebraska:								
Omaha	223,000	7	15	21	.09	6	.03	3.5

¹ Population, State census, 1925.² Includes 2 nonresidents.

Reported Prevalence for the Year 1928—Continued

TYPHOID FEVER—Continued

City	Estimated population, July 1, 1928	Estimated expectancy		1928				
		Number of years	Cases	Cases reported	Cases per 1,000 inhabitants	Deaths registered	Deaths per 1,000 inhabitants	Cases reported for each death registered
New Jersey:								
Camden	135,000	7	32	20	0.15	6	0.04	3.3
Elizabeth		7	16	14		0		
Jersey City	325,000	7	28	11	.03	2	.01	5.5
Newark	474,000	7	56	19	.04	5	.01	3.8
Paterson	145,000	7	18	10	.07	2	.01	5.0
Trenton	139,000	7	41	30	.22	3	.02	10.0
New York:								
Albany	120,000	7	41	21	.17	1	.01	21.0
Buffalo	556,000	7	88	42	.08	13	.02	3.2
New York	6,018,000	7	899	671	.11	87	.01	7.7
Rochester	328,000	7	49	21	.06	3	.01	7.0
Syracuse	199,000	7	30	³ 15	³ .08	1	.01	15.0
Utica	104,000	7	23	14	.13	0		
Yonkers	121,000	7	9	9	.07	0		
Ohio:								
Akron		7	23	13		1		13.0
Canton	117,000	7	10	3	.03	1	.01	3.0
Cincinnati	414,000	7	73	43	.10	7	.02	6.1
Cleveland	1,010,000	7	97	47	.05	6	.01	7.8
Columbus	299,000	7	31	16	.05	5	.02	3.2
Dayton	185,000	7	28	19	.10	5	.03	3.8
Toledo	313,000	7	56	42	.13	15	.05	2.8
Youngstown	174,000	7	31	19	.11	2	.01	9.5
Oklahoma:								
Oklahoma City		7	49	45		14		3.2
Tulsa	171,000			27	.16			
Oregon:								
Portland		7	39	33		7		4.7
Pennsylvania:								
Erie		7	22	7		1		7.0
Philadelphia	2,064,000	7	271	127	.06	17	.01	7.0
Pittsburgh	674,000	7	96	³ 111	³ .16	³ 23	³ .03	³ 4.5
Reading	115,000	7	17	9	.08	3	.03	3.8
Rhode Island:								
Providence	286,000	7	35	³ 28	³ .10	³ 5	³ .02	³ 5.6
Tennessee:								
Knoxville	105,000	6	126	53	.50	12	.11	4.4
Memphis	190,000	7	223	123	.65	22	.12	5.6
Nashville	140,000	7	176	101	.72	21	.15	4.8
Texas:								
Dallas	218,000	7	93			11	.05	
El Paso	118,000	6	55	42	.36	12	.10	3.5
Fort Worth	171,000	7	35	31	.18	12	.07	2.6
Houston		7	45	49		18		2.7
San Antonio	218,000	7	56	17	.08	5	.02	3.4
Utah:								
Salt Lake City	138,000	7	43	30	.22	4	.03	7.5
Virginia:								
Norfolk	184,000	7	29	20	.11	3	.02	6.7
Richmond	194,000	7	68	42	.22	6	.03	7.0
Washington:								
Seattle	383,000	7	67	54	.14	5	.01	10.8
Spokane	109,000	7	26	12	.11	2	.02	6.0
Tacoma	111,000	7	22	18	.16	0		
Wisconsin:								
Milwaukee	544,000	6	28	16	.03	4	.01	4.0
Total:								
73 cities	31,045,000		5,340	3,478	.112	608	.020	5.7
75 cities	31,415,000					621	.020	
84 cities			5,705	3,742		680		5.5
85 cities				3,769				
86 cities						693		

³ Includes nonresidents.

Reported Prevalence for the Year 1928—Continued

TYPHUS FEVER

City	Cases reported, 1928	Deaths registered, 1928	City	Cases reported, 1928	Deaths registered, 1928
Alabama:			Illinois:		
Birmingham.....	1	0	Chicago.....	1	0
California:			Maryland:		
San Francisco.....	1	0	Baltimore.....	2	1
Connecticut:			New York:		
New Haven.....	2	0	New York.....	11	1
Florida:			Texas:		
Jacksonville.....	3	0	Houston.....	3	0
Miami.....	5	0	Virginia:		
Tampa.....	28	3	Richmond.....	3	0
Georgia:					
Atlanta.....	1	0			

UNDULANT FEVER

City	Cases reported, 1928	Deaths registered, 1928	City	Cases reported, 1928	Deaths registered, 1928
California:			New York:		
Long Beach.....	2	0	Buffalo.....	1	0
Los Angeles.....	2	0	New York.....	1	1
Connecticut:			Ohio:		
Hartford.....	1	0	Cleveland.....	1	1
Illinois:			Columbus.....	1	0
Chicago.....	1	0	Virginia:		
Indiana:			Richmond.....	1	0
Fort Wayne.....	1	0			
Kansas:					
Kansas City.....	3	0			

Reported Prevalence for the Year 1928—Continued

WHOOPIING COUGH

City	Estimated population, July 1, 1928	Aver- age, 1922- 1927	1928				
			Cases re- ported	Cases per 1,000 inhab- itants	Deaths regis- tered	Deaths per 1,000 inhab- itants	Cases reported for each death regis- tered
Alabama:							
Birmingham.....	222,000	256	210	0.95	24	0.11	8.7
California:							
Long Beach.....		160	268		1		268.0
Los Angeles.....		761	2,032		91		22.3
Oakland.....	274,000	353	318	1.34	5	.02	73.6
San Diego.....	120,000	475	775	6.46	6	.05	129.2
San Francisco.....	585,000	555	548	.94	10	.02	54.8
Colorado:							
Denver.....	294,000	758	777	2.64	11	.04	70.6
Connecticut:							
Bridgeport.....		88	169		15		10.7
Hartford.....	172,000	271	285	1.66	10	.06	28.5
New Haven.....	188,000	376	773	4.11	18	.10	42.9
Waterbury.....		50	75		5		15.0
Delaware:							
Wilmington.....	129,000	94	68	.53	2	.02	34.0
District of Columbia:							
Washington.....	552,000	777	550	1.00	22	.04	25.0
Florida:							
Jacksonville.....	141,000	224	80	.57	3	.02	26.7
Miami.....	157,000		53	.34	3	.02	17.7
Tampa.....	113,000	22	26	.23	1	.01	26.0
Georgia:							
Atlanta.....	255,000	148	95	.37	14	.05	6.8
Illinois:							
Chicago.....	3,157,000	3,794	4,474	1.42	95	.03	47.1
Indiana:							
Fort Wayne.....	105,000	109	36	.34	3	.03	12.0
Indianapolis.....	382,000	973	317	.83	7	.02	45.3
Iowa:							
Des Moines.....	152,000				2	.01	
Kansas:							
Kansas City.....	118,000	338	230	1.95	4	.03	57.5
Kentucky:							
Louisville.....	329,000	205	158	.48	3	.01	52.7
Louisiana:							
New Orleans.....	429,000	225	138	.32	25	.06	5.5
Maryland:							
Baltimore.....	830,000	2,499	3,238	3.90	83	.10	39.0
Massachusetts:							
Boston.....	799,000	1,829	1,910	2.39	52	.07	36.7
Cambridge.....	126,000	513	228	1.81	7	.06	32.6
Fall River.....	134,000	176	123	.92	4	.03	30.7
Lowell.....	110,000	75	11	.10	0		
Lynn.....	106,000	183	94	.89	3	.03	31.3
New Bedford.....	120,000	107	182	1.52	2	.02	91.0
Somerville.....	103,000	119	145	1.41	3	.03	48.3
Springfield.....	150,000	231	206	1.37	4	.03	51.5
Worcester.....	198,000	305	502	2.54	7	.04	71.7
Michigan:							
Detroit.....	1,379,000	2,878	5,395	3.91	85	.06	63.5
Flint.....	149,000	316	360	2.42	12	.08	30.0
Grand Rapids.....	164,000	465	286	1.74	7	.04	40.9
Minnesota:							
Duluth.....	117,000	186	188	1.61	4	.03	47.0
Minneapolis.....	456,000	108	569	1.25	13	.03	43.8
St. Paul.....		749	1,136		7		162.3

¹ 2 years only.² 5 years only.³ Population, State census, 1925.

Reported Prevalence for the Year 1928—Continued

WHOOPIING COUGH—Continued

City	Estimated population, July 1, 1928	Average, 1922-1927	1928				
			Cases reported	Cases per 1,000 inhabitants	Deaths registered	Deaths per 1,000 inhabitants	Cases reported for each death registered
Missouri:							
Kansas City.....	391,000	485	459	1.17	24	0.06	19.1
St. Louis.....	848,000	1,156	1,015	1.20	33	.04	30.8
Nebraska:							
Omaha.....	223,000	72	51	.23	2	.01	25.5
New Jersey:							
Camden.....	135,000	80	145	1.07	17	.13	8.5
Elizabeth.....	215	215	215		4		53.7
Jersey City.....	325,000	80	77	.24	21	.06	3.7
Newark.....	474,000	1,936	1,621	3.42	21	.04	77.2
Paterson.....	145,000	329	231	1.59	5	.03	46.2
Trenton.....	139,000	118	75	.54	6	.04	12.5
New York:							
Albany.....	120,000	201	442	3.68	8	.07	55.2
Buffalo.....	556,000	986	1,628	2.93	24	.04	67.8
New York.....	6,018,000	5,315	5,876	.98	347	.06	16.9
Rochester.....	328,000	347	472	1.44	22	.07	21.5
Syracuse.....	199,000	603	[§] 1,245	[§] 6.26	[§] 13	[§] .07	[§] 95.8
Utica.....	104,000	221	187	1.80	0		
Yonkers.....	121,000	129	199	1.64	5	.04	39.8
Ohio:							
Akron.....		934	494		6		82.3
Canton.....	117,000	248	356	3.04	2	.02	178.0
Cincinnati.....	414,000	492	361	.87	26	.06	13.9
Cleveland.....	1,010,000	2,306	2,826	2.80	51	.05	55.4
Columbus.....	299,000	275	247	.83	7	.02	35.3
Dayton.....	185,000	46	38	.21	3	.02	12.7
Toledo.....	313,000	903	870	2.78	7	.02	124.3
Youngstown.....	174,000	383	116	.67	1	.01	116.0
Oklahoma:							
Oklahoma City.....		[‡] 29			1		
Tulsa.....	171,000		126	.74			
Oregon:							
Portland.....		149	6		0		
Pennsylvania:							
Erie.....		376	475		7		67.9
Philadelphia.....	2,064,000	2,308	3,949	1.91	132	.06	29.9
Pittsburgh.....	674,000	1,492	[§] 1,135	[§] 1.68	[§] 30	[§] .04	[§] 37.8
Reading.....	115,000	315	435	3.78	2	.02	217.5
Rhode Island:							
Providence.....	286,000	175	[§] 120	[§] .42	[§] 15	[§] .05	[§] 8.0
Tennessee:							
Knoxville.....	105,000	[‡] 35	13	.12	3	.03	4.3
Memphis.....	190,000	374	144	.76	10	.05	14.4
Nashville.....	140,000	127	92	.66	9	.06	10.2
Texas:							
Dallas.....	218,000	430	479	2.20	17	.08	28.2
El Paso.....	118,000	[‡] 399	553	4.69	25	.21	22.1
Fort Worth.....	171,000		19	.11	4	.02	4.7
Houston.....		[‡] 12			9		
San Antonio.....	218,000				6	.03	
Utah:							
Salt Lake City.....	138,000	680	365	2.64	5	.04	73.0
Virginia:							
Norfolk.....	184,000	[‡] 365	60	.33	0		
Richmond.....	194,000	170	59	.30	17	.09	3.5
Washington:							
Seattle.....	383,000	697	385	1.01	3	.01	128.3
Spokane.....	109,000	217	36	.33	1	.01	36.0
Tacoma.....	111,000	143	91	.82	0		
Wisconsin:							
Milwaukee.....	544,000	2,058	2,340	4.30	29	.05	80.7
Total:							
71 cities.....	30,717,000	46,729	52,138	1.697	1,492	.049	34.9
75 cities.....	31,415,000				1,507	.048	
83 cities.....			57,197				
86 cities.....					1,653		

[‡] 5 years only.[‡] 4 years only.[§] Includes nonresidents.